

Db	158	TTGGCCCCAGCAATGATCTCTCCGAAATCTGGTTGGGATCCAGCATATAGGCCAATGTACA	99
Qy	1620	ACAAATCGAGCCCTGGGGACAGACCGAGGAGGGGAGACACAGACAAAAGAAAACACAGCA	1679
Db	98	ACAAATCGAGCCCTGGGGACAGACCGAGGAGGGGAGAGACAGACAGAAAAGAAAACACAGCA	39
Qy	1680	TGAGAACACAGTAAT	1695
Db	38	TGAGAACACAGTAAT	23
RESULT 9			
LOCUS	BF439382	696 bp	mRNA
DEFINITION	nab63906.x1 Soares_NSF_F8_9W_OT_PA.P.S1 Homo sapiens cDNA clone IMAGE:3372827 3' similar to SM-GP39_HUMAN O43194 PUTATIVE G PROTEIN-COUPLED RECEPTOR GPR39. ;, mRNA sequence.		
ACCESSION	BF439382		
VERSION	BF439382.1	GI:11451899	
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.		
AUTHORS	1 (bases 1 to 696)		
TITLE	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.		
JOURNAL	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index		
COMMENT	Unpublished (1997) Contact: Robert Strausberg, Ph.D. Email: cgapbs-remail.nih.gov This clone is available royalty-free through LINL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Seq primer: 40UP from Gibco High quality sequence stop: 459. Location/Qualifiers		
FEATURES	1..696		
source	/organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:3272627" /clone_11b="Soares_NSF_F8_9W_OT_PA.P.S1" /lab_host="DH10B" /note="Organ: pooled; Vector: pT7u3D-Pac (Pharmacia) with a modified polylinker; Site.1: Not I; Site.2: Eco RI; Equal amounts of plasmid DNA from five normalized libraries were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 5 libraries. The pools consisted of the following libraries and clones: Soares NBHSF pool 1: 309384-310919, 333208-325895 Soares NB2HP pool 1: 145032-147335, 147720-148103, 148672-149255, 15002 - 150407, 151176-152327 Soares NB2HF8-9W pool 1: 758280-760583, 772104-774407 Soares NBHRA pool 1: 304776-305311, 320136-322823, 326280-326663 Soares NBHOR pool 1: 723720-726407, 739080-740999 Subtraction by Bento Soares and M. Fatima Bonaldo."		
BASE COUNT	138 a	202 c	164 g 192 t
ORIGIN			
Query Match	29.1%	Score 552;	DB 12; Length 696;
Best Local Similarity	99.8%	Pred. No. 0;	
Matches 602;	Conservative 0;	Mismatches 1;	Indels 0; Gaps 0;
Qy	1280	TGCAGAGAGCTGGCGCCGAGCGAGAGGAGGAGGCGCTGCACAAAGCGCGGCTGTC	1339
Db	603	TGCAGAGAGACTGGCGCCGAGCGAGAGGAGGAGGCGGCTGCACAAAGCGCGGCTGTC	544
Qy	1340	GGTGCTGAGTGGCCATGTACGCGCAGGCGCTTCTCGTGTGTGGCGTGTCCACGACGACG	1399
Db	543	GGTGTGTGAGTGGCCATGTACGCGCAGGCGCTTCTCGTGTGTGGCGTGTCCACGACGACG	484

QY	1400	GC	GG	CC	AG	CA	GC	AC	CT	GC	GA	GA	AC	CC	CG	GA	AC	CT	GC	GA	GA	CA	CG	GT	TA	CA	G	
QY	1400	GC	GG	CC	AG <td>CA</td> <td>GC</td> <td>AC</td> <td>CT</td> <td>GC</td> <td>GA</td> <td>GA</td> <td>AC</td> <td>CC</td> <td>CG</td> <td>GA</td> <td>AC</td> <td>CT</td> <td>GC</td> <td>GA</td> <td>GA</td> <td>CA</td> <td>CG</td> <td>GT <td>TA</td> <td>CA</td> <td>G</td> </td>	CA	GC	AC	CT	GC	GA	GA	AC	CC	CG	GA	AC	CT	GC	GA	GA	CA	CG	GT <td>TA</td> <td>CA</td> <td>G</td>	TA	CA	G	
Db	483	GG	GG	CC	AG	CA	GC	AC	CT	GC	GA	GA	AC	CC	CG	GA	AC	CT	GC	GA	GA	CA	CG	GT <td>TA</td> <td>CA</td> <td>G</td>	TA	CA	G	
QY	1460	GAG	CG	GG	TT	GT	AT	GC	TA	GC	AG	CG	TA	GC	TA	GC	AG	CG	TA	GC	AG	CG	TA	GC	AG	CG	TA	G
Db	423	GAG	CG	GG	TT	GT	AT	GC	TA	GC	AG	CG	TA	GC	TA	GC	AG	CG	TA	GC	AG	CG	TA	GC	AG	CG	TA	G
QY	1520	GTA	CG	CC	CG	GA	AG	TAG	AC	CT	CG	TCC	AG	TC	GC	AG	TC	GC	AG	TC	GC	AG	TC	GC	AG	TC	G	
Db	363	GTA	CG	CC	CG	GA	AG	TAG	AC	CT	CG	TCC	AG	TC	GC	AG	TC	GC	AG	TC	GC	AG	TC	GC	AG	TC	G	
QY	1580	CGA	AT	TC	TG	TT	GG	TC	GC	TA	GC	AG	CG	TA	GC	AG	CG	TA	GC	AG	CG	TA	GC	AG	CG	TA	G	
Db	303	CGA	AT	TC	TG	TT	GG	TC	GC	TA	GC	AG	CG	TA	GC	AG	CG	TA	GC	AG	CG	TA	GC	AG	CG	TA	G	
QY	1640	ACG	AG	CAG	AG	GAG	AG	CAG	AG	CAG	AG	GAG	AG	CAG	AG	CAG	AG	GAG	AG	CAG	AG	GAG	AG	CAG	AG	GAG	AG	
Db	243	ACG	AG	CAG	AG	GAG	AG	CAG	AG	CAG	AG	GAG	AG	CAG	AG	CAG	AG	GAG	AG	CAG	AG	GAG	AG	CAG	AG	GAG	AG	
QY	1700	AAA	AC	CA	TAA	AA	AT	TT	TA	GC	CC	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT		
Db	183	AAA	AC	CA	TAA	AA	AT	TT	TA	GC	CC	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT		
QY	1760	TTT	T	T	T	C	A	G	T	T	G	A	C	T	T	G	A	C	T	T	G	A	C	T	T	G	A	
Db	123	TTT	T	T	T	C	A	G	T	T	G	A	C	T	T	G	A	C	T	T	G	A	C	T	T	G	A	
QY	1820	TC	AA	CC	CG	GG	AG	AG	T	T	GG	CT	GT	GT	AA	GA	AA	GA	AC	CT	TA	AT	GC	TT	TA	AG	CA	
Db	63	TC	AA	CC	CG	GG	AG	AG	T	T	GG	CT	GT	GT	AA	GA	AA	GA	AC	CT	TA	AT	GC	TT	TA	AG	CA	
QY	1880	AAA	1882																									
Db	3	AAA	1																									
RESULT 10																												
LOCUS	BO882838																											
DEFINITION	BO882838																											







QY 1717 AGCCCTCTGTTCTGTTACTGGCCAGAAATGTTACCAATTTTTCAGTGTGACTT 1776  
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 Db 161 AGCCCTCTGTTCTGTGTTACTGGCCAGAAATGTTACCAATTTTTCAGTGTGACTT 102  
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 QY 1777 GACAGCTTTCTTTTCCACAGCAAGAGAGATTTTACACTCTTTTCAACCCGGGGAGTT 1836  
 |||||||  
 Db 101 GACAGCTTTCTTTTCCACAGCAAGAGAGATTTTACACTCTTTTCAACCCGGGGAGTT 42  
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 QY 1837 GGCCTGTAAAGAAAGACCATTAATGCTTTAGACAGTGT 1877  
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 Db 41 GCCTGTGTAAAGAAAGACCATTAATGCTTTAGACAGTGT 1  
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RESULT 15  
 AM590950/c 649 bp mRNA linear EST 22-MAR-2000  
 LOCUS hg51a12.x1 NCI\_CGAP\_GC6 Homo sapiens cDNA clone IMAGE:2949166 3'  
 DEFINITION similar to SW:GP39\_HUMAN 043194 PUTATIVE G PROTEIN-COUPLED RECEPTOR  
 GPR39.; mRNA sequence.  
 ACCESSION AM590950 GI:7278094  
 VERSION AM590950.1  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 REFERENCE 1 (bases 1 to 649)  
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgaps-remail.nih.gov  
 Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael  
 R. Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima  
 Bonaldo, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
 image.llnl.gov/image/html/tresources.shtml

FEATURES  
 source  
 Possible reversed clone: similarity on wrong strand  
 Seq primer: -400P from Gibco  
 High quality sequence stop: 457.  
 Location/Qualifiers  
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 /organism="Homo sapiens"  
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 /clone\_image="IMAGE:2949166"  
 /clone\_lib="NCI\_CGAP\_GC6"  
 /tissue\_type="pooled germ cell tumors"  
 /lab\_host="DH10B"  
 /note="vector: pT73D-Pac (Pharmacia) with a modified  
 polylinker; Site\_1: Not I; Site\_2: Eco RI; Plasmid DNA  
 from the normalized library NCI\_CGAP\_GC4 was prepared, and  
 ss circles were made in vitro. Following HAP purification,  
 this DNA was used as tracer in a subtractive hybridization  
 reaction. The driver was PCR-amplified cDNAs from a pool  
 of 5,000 clones made from the same library (clonids  
 1257096-1258631, 1469064-1470983, and 1475592-1476743).  
 Subtraction by Bento Soares and M. Fatima Bonaldo."  
 BASE COUNT 132 a 189 c 155 g 173 t  
 ORIGIN  
 Query Match 27.3%; Score 517; DB 10; Length 649;  
 Best Local Similarity 99.8%; Pred. No. 0;  
 Matches 567; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1310 CAACGGGCGCTGCACAAAGCGGCGCTGTGCTGAGTGGCATGTACGGCAGCGC 1369  
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Db 568 CAACGGGCGCTGCACAAAGCGGCGCTGTGCTGAGTGGCATGTACGGCAGCGC 509  
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 QY 1370 CTTCTCTGTTGTTGGCTGCTGACGACAGCGCGACACAGCACACCTGACAGAACCCG 1429  
 |||||||  
 Db 508 CTTCTCTGTTGTTGGCTGCTGACGACAGCGCGACACAGCACACCTGACAGAACCCG 449  
 |||||||  
 QY 1430 CCGAAACTGTCGCGAGACACCGGTGTACAGAGCGGGTGTATGACCGAGTGAAGTAA 1489  
 |||||||  
 Db 448 CCGAAACTGTCGCGAGACACCGGTGTACAGAGCGGGTGTATGACCGAGTGAAGTAA 389  
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 QY 1490 AAACGTCTCCGAGAGAGGAGAGATCATGTACGCCCGGAAGTGAAGTGAAGTGA 1549  
 |||||||  
 Db 388 AAACGTCTCCGAGAGAGGAGAGATCATGTACGCCCGGAAGTGAAGTGAAGTGA 329  
 |||||||  
 QY 1550 GTGCTTGGGTTTGGCCGACGACATATCTCTCGAATCTGTGTTGGCATTCACATACGC 1609  
 |||||||  
 Db 328 GTGCTTGGGTTTGGCCGACGACATATCTCTCGAATCTGTGTTGGCATTCACATACGC 269  
 |||||||  
 QY 1610 CAATGTCAACAATCACCCCTGGGCGACAGCAGCAGAGGAGAGACAGAGAAAGAA 1669  
 |||||||  
 Db 268 CAATGTCAACAATCACCCCTGGGCGACAGCAGCAGAGGAGAGACAGAGAAAGAA 209  
 |||||||  
 QY 1670 AAACACAGCATGAGAACACACAGTAATGAATAAACCATTAATATTATGCCCTCTGTT 1729  
 |||||||  
 Db 208 AAACACAGCATGAGAACACACAGTAATGAATAAACCATTAATATTATGCCCTCTGTT 149  
 |||||||  
 QY 1730 TGTCTTACTGCGCCAGAGAAATGTTTCAATTTTTCAGTGTGACTTACAGCTTCTTTT 1789  
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 Db 148 TGTCTTACTGCGCCAGAGAAATGTTTCAATTTTTCAGTGTGACTTACAGCTTCTTTT 89  
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 Db 88 GCCACAAGCAGAGAGATTAATACACTGTTCAAAACCCGGGGAGTTGGCTGTGTTAAG 29  
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 QY 1850 AAAGACCATTAATGCTTTAGACAGTGT 1877  
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 Db 28 AAAGACCATTAATGCTTTAGACAGTGT 1  
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RESULT 16  
 BE858216/c 551 bp mRNA linear EST 29-SEP-2000  
 LOCUS BE858216 7919607.x1 NCI\_CGAP\_Brn23 Homo sapiens cDNA clone IMAGE:3306972 3'  
 DEFINITION similar to SW:GP39\_HUMAN 043194 PUTATIVE G PROTEIN-COUPLED RECEPTOR  
 GPR39.; mRNA sequence.  
 ACCESSION BE858216 GI:10372861  
 VERSION BE858216  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 REFERENCE 1 (bases 1 to 551)  
 NCI/MINDS-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 AUTHORS National Cancer Institute / National Institute of Neurological  
 Disorders and Stroke, Brain Tumor Genome Anatomy Project  
 (CGAP/BRGAP), Tumor Gene Index  
 JOURNAL Unpublished (1998)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgaps-remail.nih.gov  
 Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D.,  
 Ph.D.  
 CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima  
 Bonaldo, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL, send email to:  
 infoimage.llnl.gov  
 Seq primer: -400P from Gibco  
 High quality sequence stop: 490.  
 BASE COUNT 1..551  
 ORIGIN  
 FEATURES  
 source

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/organism="Homo sapiens"
/db.xref="taxon:9606"
/clone="IMAGE:3306972"
/clone_lib="NCI_CGAP_Brn23"
/tissue_type="gliblastoma (pooled)"
/lab_host="DH10B"
/note="Organ: brain; Vector: pT73D-Pac (Pharmacia) with a
modified polylinker. Site.1: Not I; Site.2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
GTGTACCAATCTGAAGTGGAGCGCGCCGATATCTTTTCTTTTCTTTTCTTTT
T 3']; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and Eco RI
into the Not I and Eco RI sites of the modified pT73 vector.
Library is normalized, and was constructed by Bento
Soares and M. Fatima Bonaldo."
BASE COUNT      110 a      161 c      128 g      152 t
ORIGIN

```

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Query Match      26.4%; Score 500; DB 12; Length 551;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 550; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1337 AGCGGGCCCTGTCGGTGTGAGTGCATGTACGCGAGCGCTTCTCGTGGTGGCGT 1386
|||||
DB 551 AGCGGGCCCTGTCGGTGTGAGTGCATGTACGCGAGCGCTTCTCGTGGTGGCGT 492

QY 1387 GCTGACGACAGCGGGGCGACGACACCTGACGACACCCCGGAAACCTGCTGCGAGG 1446
|||||
DB 491 GCTGACGACAGCGGGGCGACGACACCTGACGACACCCCGGAAACCTGCTGCGAGG 432

QY 1447 ACACCGTGTACAGAGCGGGGTGATGACGCGAGCTAGTAAACGCTCTCCGAGAAAG 1506
|||||
DB 431 ACACCGTGTACAGAGCGGGGTGATGACGCGAGCTAGTAAACGCTCTCCGAGAAAG 372

QY 1507 GGAGAGGATCATGTACGCGCGGAAAGTAGAGACCTGCTCCAGTGTGGTGGCGG 1566
|||||
DB 371 GGAGAGGATCATGTACGCGCGGAAAGTAGAGACCTGCTCCAGTGTGGTGGCGG 312

QY 1567 CAGCATGATGCTCGGAATCTGTTGGGCGATCCAGATCGGCGCAATGTCACAAACATCA 1626
|||||
DB 311 CAGCATGATGCTCGGAATCTGTTGGGCGATCCAGATCGGCGCAATGTCACAAACATCA 252

QY 1627 GCCCTGGCGACAGCAGAGCAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1686
|||||
DB 251 GCCCTGGCGACAGCAGAGCAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 192

QY 1687 ACAGTAATGAATTAACCATTAATATTATTAGCCCTCTGTTCTGTGCTTACTGGCCAG 1746
|||||
DB 191 ACAGTAATGAATTAACCATTAATATTATTAGCCCTCTGTTCTGTGCTTACTGGCCAG 132

QY 1747 AATGTGTACCAATTTTTCAGTGTGAGCTTGTGACAGCTCTTTTGCACAAAGAGAGAGA 1806
|||||
DB 131 AATGTGTACCAATTTTTCAGTGTGAGCTTGTGACAGCTCTTTTGCACAAAGAGAGAGA 72

QY 1807 ATTAAACACTGTTTCAAAACCGGGGAGTGTGCTGTGTTAAAGAAAGACATTAAATGCT 1866
|||||
DB 71 ATTAAACACTGTTTCAAAACCGGGGAGTGTGCTGTGTTAAAGAAAGACATTAAATGCT 12

QY 1867 TTAGACAGTGT 1877
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DB 11 TTAGACAGTGT 1

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RESULT 17
B1554034 698 bp mRNA linear EST 05-SEP-2001
LOCUS 603335426p1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:5309527
DEFINITION 5', mRNA sequence.
ACCESSION B1554034
VERSION B1554034.1 GI:15441348
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

```

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REFERENCE
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: rgs@bbs-rcmail.nih.gov
Tissue Procurement: David N. Louis, M.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/MLN at:
http://image.llnl.gov
Plate: LLM11784 row: d column: 08
High quality sequence stop: 687.
FEATURES
source
Location/Qualifiers
1..698
/organism="Homo sapiens"
/db.xref="taxon:9606"
/clone="IMAGE:5309527"
/clone_lib="NCI_CGAP_Brn67"
/tissue_type="anaplastic oligodendroglioma with 1p/19q
loss"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: brain; Vector: pCMV-Sport6; Site.1: NotI;
Site.2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2.3 kb. Constructed by Life
Technologies. Note: this is a NCI_CGAP Library."
BASE COUNT      131 a      231 c      204 g      132 t
ORIGIN

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Query Match      26.3%; Score 498; DB 13; Length 698;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 618; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 19 GGTGCTCGGCGCGGAGCGCGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 78
|||||
DB 17 GGTGCTCGGCGCGGAGCGCGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 76

QY 79 CGGGCATGACAGGCTCCGCGAGCGGACCTGCGGCTCTCTTAAGTACACGCTGCTTC 138
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DB 77 CGGGCATGACAGGCTCCGCGAGCGGACCTGCGGCTCTCTTAAGTACACGCTGCTTC 136

QY 139 CGGGCAGAGAGCGGCGGCCCGACAGCCTCGGAGCGACAGCGCTGACGCGGAGGAG 198
|||||
DB 137 CGGGCAGAGAGCGGCGGCCCGACAGCCTCGGAGCGACAGCGCTGACGCGGAGGAG 196

QY 199 CTCGCTGCTGTCGCTCTCTGATGCGCTTGCCTCTCCGCGCGCGGAGACTCGGAG 258
|||||
DB 197 CTCGCTGCTGTCGCTCTCTGATGCGCTTGCCTCTCCGCGCGCGGAGACTCGGAG 256

QY 259 AATGTGGTCTTAGAGATGCGGCACTTTTGGGATGTTCTTCCAGGCTTGG 318
|||||
DB 257 AATGTGGTCTTAGAGATGCGGCACTTTTGGGATGTTCTTCCAGGCTTGG 316

QY 319 GCTGCAATTCAGTGTACAGTGTGAAGATTCAGCTGAACAGAGACTGCTCTCC 378
|||||
DB 317 GCTGCAATTCAGTGTACAGTGTGAAGATTCAGCTGAACAGAGACTGCTCTCC 376

QY 379 CGAGTTCATTGTGAATTCAGAGGTGAAGCTTCAAGCATGTGTCAGAAA-GAAGTATGG 437
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DB 377 CGAGTTCATTGTGAATTCAGAGGTGAAGCTTCAAGCATGTGTCAGAAA-GAAGTATGG 436

QY 438 AGCAAGTCCCGGAGATCATGATCCGAAGTCTGTCATCATCATGAGGGGCTGCTATG 497
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DB 437 AGCAAGTCCCGGAGATCATGATCCGAAGTCTGTCATCATCATGAGGGGCTGCTATG 496

QY 498 CCTCTCCGGGTACAGATCTTCTGCTCCAGAGGAACTGAAGTCAAGTTTGATCAGCT 557
|||||
DB 497 CCTCTCCGGGTACAGATCTTCTGCTCCAGAGGAACTGAAGTCAAGTTTGATCAGCT 556

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Qy	Db	Qy	Db
558	557	618	617
GCTGCACACCCCTCTTGTGTAAAGGGCCCAAGCCCAAGAAAAGGGGAAATCTCTCCCTCG	GCTGCACACCCCTCTTGTGTAAAGGGCCCAAGCCCAAGAAAAGGGGAAATCTCTCCCTCG	CCCTCAGGSCCATGGGCTCCG	CCCTCAGGSCCATGGGCTCCG

RESULT 18	
BF933693/c	
LOCUS	540 bp mRNA linear
DEFINITION	BF933693 nc80012.x1 NCI-CGAP-Brn23 Homo sapiens cDNA clone IMAGE:3440501 3
EST 22-JAN-2001	

ACCESSION	BF939693
VERSION	BF939693.1
GI	12357104

ORGANISM	Homo sapiens
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99	99
100	100

REFERENCE  
1 (bases 1 to 540)  
AUTHORS  
NCI/NINDS-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE  
National Cancer Institute / National Institute of Neurological

**JOURNAL COMMENT**  
Unpublished (1998)  
Contact: Robert Strausberg, Ph.D.

Features  
 Source  
 Location/Qualifiers  
 cdna Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.  
 cdna Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNLB, send email to: info@image.llnl.gov  
 Seq primer: -40up from Gluco  
 High quality sequence stop: 467.  
 Location/Qualifiers

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3440591"
/clone_lid="NCl_CGAP_Brn23"
/tissue_type="gliblastoma (pooled)"
/lab_host="DH10B"
/note="Organ: brain; Vector: p7T73D-Pac (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTGGAGCGCCGCAATCTTTTTTTTTTTTTTTTTTTT
T 3']; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified p7T73 vector.
Library is normalized, and was constructed by Bento
Soares and M.Falima Bonhaldo."
BASE COUNT
108 a 158 c 124 g 150 t

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	Query Match	Similarity	Score	DB	Length
Best Local	539	99.8%	489	12	540
Matches	539	Conservative	0	Mismatches	1
				Indels	0
				Gaps	0
QY	1337	GTGCGTGTGAGATGCGCATGTACGGCGAGGGCGTTCTCGTGTGGGGTGTGCAGCGA	1396		
Db	540	GTGCGTGTGAGATGCGCATGTACGGCGAGGGCGTTCTCGTGTGGGGTGTGCAGCGA	481		
QY	1397	CAGCGCGACACAGCAGCACTGCACGAAACCCGCCGAAACTCTCGAGAGACACCGTGA	1456		
Db	480	CAGCGCGACACACAGCAGCACTGCACGAAACCCGCCGAAACTCTCGAGAGACACCGTGA	421		

QY	1457	CAGAGCGGGGTTGATGACCCAGCTGAGGTGAAAAAGCTCCGAGAACGGGAGGAGAT	151.6
Db	420	CAGAGCGCGGTTGATGACCCAGCTGAGGTGAAAAAGCTCCGAGAACGGGAGGAGAT	361
QY	1517	CATGTAGCGCCCGGAAGTAGGACCTCGTCAGTCGTCGTTGGGTTTGGCGCAGCCATGAT	157.6
Db	360	CATGTAGCGCCCGGAAGTAGGACCTCGTCAGTCGTCGTTGGGTTTGGCGCAGCCATGAT	301
QY	1577	CCCTCCGAATCTGGTTGGGCGATCCAGCATACGGCAATGTCACACACATCAGCCCTGGGCA	163.8
Db	300	CCCTCCGAATCTGGTTGGGCGATCCAGCATACGGCAATGTCACACACATCAGCCCTGGGCA	241
QY	1637	GACACGAGCAGAGGAGGAGACAGACAGAAAAAGAAAAACACAGCATGAGAACACAGTAATG	169.6
Db	240	GACACGAGCAGAGGAGGAGACAGACAGAAAAAGAAAAACACAGCATGAGAACACAGTAATG	181
QY	1697	AATTAACCATTAATAATTTTAGCCCTCTGTTCTGCTTACTGTGCCAGGAATGTGTACC	175.6
Db	180	AATTAACCATTAATAATTTTAGCCCTCTGTTCTGCTTACTGTGCCAGGAATGTGTACC	121
QY	1757	AATTTTCAGTGTGGACCTGAACGCTCTCTTTTGGCACAGCAGAGAGAAATTTAACACT	181.6
Db	120	AATTTTCAGTGTGGACCTGAACGCTCTCTTTTGGCACAGCAGAGAGAAATTTAACACT	61
QY	1817	GTTTTCAACCCGGGGGAGTGGCTGTGTGTTAAAGAAAGACATTAATGCTTTAGCACTG	187.6
Db	60	GTTTTCAACCCGGGGGAGTGGCTGTGTGTTAAAGAAAGACATTAATGCTTTAGCACTG	1

RESULT	19
A1742092/c	
LOCUS	578 bp mRNA linear EST 19-DEC-1999
DEFINITION	wg38h03.i1 Soares_NSF_F8_9w_OT_PA_p.S1 Homo sapiens cDNA clone IMAGE:2367413 3' similar to SW:GP39.HUMAN O43194 PUTATIVE G PROTEIN-COUPLED RECEPTOR GPR39. // mRNA sequence.
ACCESSION	A1742092
VERSION	A1742092.1 GI:5110380
KEYWORDS	EST.
SOURCE	human.

REFERENCE  
1 (bases 1 to 578)  
AUTHORS  
NCI-CCAP <http://www.ncbi.nlm.nih.gov/ccap>.  
TITLE  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
JOURNAL  
Unpublished (1997)  
COMMENT  
Contact: Robert Strausberg, Ph.D.

This clone is available royalty-free through LNL ; contact the IMAGE Consortium ([info@image.llnl.gov](mailto:info@image.llnl.gov)) for further information.  
Insert Length: 806 Std Error: 0.00  
Seq primer: -40UP from Gibco  
High quality sequence stop: 460.

```

Location/Qualifiers
1. 578
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2367413"
/clone_id="Soares_NSF_F8_9W_OT_PA_P_S1"
/lab_host="DH10B"
/notes="Organ: pooled: Vector: pTTT3-Pac (Pharmacia) with
a modified polylinker: Site:1: Not I; Site:2: Eco RI;
Equal amounts of plasmid DNA from five normalized
libraries were mixed, and ss circles were made in vitro.
Following HAP purification, this DNA was used as tracer in
a subtractive hybridization reaction. The driver was
PCR-amplified cDNAs from pools of 5,000 clones made from
the same 5 libraries. The pools consisted of the following
libraries and clonesIDs: Soares NBHSF pool 1:
309384-310919, 323208-325895 Soares NB2NP pool 1:
145032-147335, 147720-148103, 148672-149255, 15002 -
150407, 151176-152357 Soares NB2HF8-9W pool 1:

```



758280-760583, 772104-774407 Soares NbHPA pool 1:  
304776-306311, 320136-322823, 326280-326663 Soares NbHOT  
pool 1: 723720-726407, 73080-740999 Subtraction by Benco  
Soares and M. Fátima Bonaldo.  
BASE COUNT 102 a 176 c 142 g 158 t  
ORIGIN

Query Match 25.5% Score 484; DB 9; Length 578;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 534; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1152 TCTGACAGAGATTGGCTGGTTCCGCGCTGAGTGGCTAGTACTGACAGCTCAAT 1211  
Db TCTGACAGAGATTGGCTGGTTCCGCGCTGAGTGGCTAGTACTGACAGCTCAAT 515  
1212 GACTGGGACTTGAAGTGGGGCTGGCTGCTCTGTAAGAAATCTTCTCA 1271  
Db GACTGGGACTTGAAGTGGGGCTGGCTGCTCTGTAAGAAATCTTCTCA 455  
1272 GTTCTCTTGCAGAGACTGGGGCGCGGAGAGAGAACGGGCGTGCACAAAGCGG 1331  
Db GTTCTCTTGCAGAGACTGGGGCGCGGAGAGAGAACGGGCGTGCACAAAGCGG 395  
1332 GCGCTGTGCTGGTGGAGTGCATGACGCGCAGCGCGCTTCTGCTGGCTGCTGC 1391  
Db GCGCTGTGCTGGTGGAGTGCATGACGCGCAGCGCGCTTCTGCTGGCTGCTGC 335  
1392 AGCGACAGCGCGGACACAGCAGCCTGACAGAACCCCGGAAACTGCTGCGACAGAC 1451  
Db AGCGACAGCGCGGACACAGCAGCCTGACAGAACCCCGGAAACTGCTGCGACAGAC 275  
1452 GTGTACAGAGAGCGGGTGTGATGACGAGTGAAGAAAGCTCCGAGAGGGGAGG 1511  
Db GTGTACAGAGAGCGGGTGTGATGACGAGTGAAGAAAGCTCCGAGAGGGGAGG 215  
1512 AGGATCATGTACGCGCCGGAAGTAGAAGCTGTCAGTCTGCTTGGTGGCCGACGC 1571  
Db AGGATCATGTACGCGCCGGAAGTAGAAGCTGTCAGTCTGCTTGGTGGCCGACGC 155  
1572 ATGATCTCTCCGAATCTGTTGGGCAATCCAGCATACGGCCAAATGTACAAACAT 1631  
Db ATGATCTCTCCGAATCTGTTGGGCAATCCAGCATACGGCCAAATGTACAAACAT 95  
1632 GCGCAGACACGACAG 1686  
Db GCGCAGACACGACAG 40

RESULT 20 534 bp mRNA linear EST 18-JUL-2000  
BE350014/c ht07g12.x1 NCI CGAP Kid3 Homo sapiens cDNA clone IMAGE:3146086 3'  
LOCUS similar to SW:GP93\_HUMAN 043194 PUTATIVE G PROTEIN-COUPLED RECEPTOR  
DEFINITION GPR39.?, mRNA sequence.

ACCESSION BE350014 GI:9261867  
VERSION BE350014.1  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 534)  
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
TITLE Tissue Procurement: Chris Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: Life  
Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The  
I.M.A.G.E. Consortium DNA Sequencing by: Washington University  
Genome Sequencing Center

JOURNAL Unpublished (1997)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: c9pbbs-r@mail.nih.gov  
Tissue Procurement: Chris Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: Life  
Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The  
I.M.A.G.E. Consortium DNA Sequencing by: Washington University  
Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL, send email to:  
info@image.llnl.gov  
Seq primer: -400P from Glibco  
High quality sequence stop: 408.  
Location/Qualifiers  
1..534

FEATURES  
source

/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:3146086"  
/clone\_lib="NCI-CGAP\_Kid3"  
/tissue\_type="2 pooled Wilms' tumors, one primary and one  
metastatic to brain"  
/lab\_host="DH10B"  
/note="Organ: Kidney; Vector: pCMV-SPORT6; Site: 1; Salt:  
Site: 2; Note: Cloned unidirectionally. Primer: Oligo dt.  
Library constructed by Life Technologies."  
BASE COUNT 98 a 172 c 143 g 121 t  
ORIGIN

Query Match 25.3% Score 479; DB 10; Length 534;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 529; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1131 TCATGCTCTGAAACCATCTCTGACAGAGATTGGCTGTTGCGCTGAGTTGGC 1190  
Db TCATGCTCTGAAACCATCTCTGACAGAGATTGGCTGTTGCGCTGAGTTGGC 471  
1191 TCTAGTACATCGAGTCAATGATGAGTGGAGTGAAGTGGGCTCGGCTGTAAGAA 1250  
Db TCTAGTACATCGAGTCAATGATGAGTGGAGTGAAGTGGGCTCGGCTGTAAGAA 411  
1251 GTGCTTAAGAAATCTTCAATCTCTGAGTGTGAGAGAGTGGCGCGGAGCGAGAGAC 1310  
Db GTGCTTAAGAAATCTTCAATCTCTGAGTGTGAGAGAGTGGCGCGGAGCGAGAGAC 351  
1311 AACGGGCGTGCACAAAGCGGGCGTGTGCTGCTGAGTGGCATGTACGCGACGCC 1370  
Db AACGGGCGTGCACAAAGCGGGCGTGTGCTGCTGAGTGGCATGTACGCGACGCC 291  
1371 TTCTCGTGGTGGCGTGTGAGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 1430  
Db TTCTCGTGGTGGCGTGTGAGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 231  
1431 CGAAACTGCTGGAGAGACACCGTGTACAGAGAGCGGTTGATGACCGAGTGAAGAA 1490  
Db CGAAACTGCTGGAGAGACACCGTGTACAGAGAGCGGTTGATGACCGAGTGAAGAA 171  
1491 AACGCTCCGAGAGAGAGAGAGATCATGTACGCGCGGAGAGTGAAGTCTGCTCAGTGG 1550  
Db AACGCTCCGAGAGAGAGAGAGATCATGTACGCGCGGAGAGTGAAGTCTGCTCAGTGG 111  
1551 TGGTGGTGGTGGCGCAGCATGATCTCCGAATCTGTTGGGATCCAGCATACGGCC 1610  
Db TGGTGGTGGTGGCGCAGCATGATCTCCGAATCTGTTGGGATCCAGCATACGGCC 51  
1611 AATGTCAACAATCAGCCCTGGGACAGACGAGAGAGAGAGAGAG 1660  
Db AATGTCAACAATCAGCCCTGGGACAGACGAGAGAGAGAGAGAG 1

RESULT 21 527 bp mRNA linear EST 31-JAN-2000  
AM338938/c ha68h04.x1 NCI CGAP Paul Homo sapiens cDNA clone IMAGE:2878903 3'  
LOCUS similar to SW:GP93\_HUMAN 043194 PUTATIVE G PROTEIN-COUPLED RECEPTOR  
DEFINITION GPR39.?, mRNA sequence.

ACCESSION AM338938  
VERSION AM338938  
KEYWORDS EST.  
SOURCE human.

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;



REFERENCE  
1 (bases 1 to 527)  
AUTHORS  
TITLE  
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

JOURNAL  
COMMENT  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
Email: cgapbs-remail.nih.gov  
Life Technologies catalog #: 11548-013  
DNA sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/dbp/image/image.html

FEATURES  
source  
Possible reversed clone: similarity on wrong strand  
Seq primer: -40UP from Glibco  
High quality sequence stop: 420.  
Location/Qualifiers  
1..527  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:2878903"  
/clone\_lib="NCI CGAP\_Pan1"  
/tissue\_type="adenocarcinoma"  
/lab\_host="DH10B"  
/note="Organ: pancreas; Vector: PCMV-SPORT6; Site\_1: SalI; Site\_2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.72 kb. Life Technologies catalog #: 11548-013"

BASE COUNT 103 a 143 c 120 g 161 t  
ORIGIN

Query Match 25.1%; Score 476; DB 10; Length 527;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 526; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1364 CAGCGGCTCTCGTGGTGGGCTGCTGACGACAGCGGCGGACACACACCTGACGAA 1423  
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1424 CACCGCGGAACTGCTCGAGGACACCGTGTACAGAGCGGGTGTGATGACCGAGCTGAG 1483  
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1484 TCTTTTGCACAAAGAGAGATTTTACACTGTTTCAAAACCGGGGAGTTGGCTGTG 1843  
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1494 TTTAAAGAAACACATTAATGCTTTAGACAGTGTAAAAA 1890  
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Db 459 TCATGTACCCGAAGTCTGTGCATCATCATGAGCGGCTGTCTTCATGCGCTTCGCCGGGTACC 518

Qy 513 AGTCCTTCTGCTCCGCCAGGAAGTGAATGATTTGTCATGAGTGTGCAACACCCCTC 572

Db 519 AGTCCTTCTGCTCCGCCAGGAAGTGAATGATTTGTCATGAGTGTGCAACACCCCTC 578

Qy 573 TTTGTACGGGCGCAAGGCGCAAGAAAGGGAAGTTCGCTCGGCGCTCAGGCGCA 628

Db 579 TTTGTACGGGCGCAAGGCGCAAGAAAGGGAAGTTCGCTCGGCGCTCAGGCGCA 634

RESULT 23

LOCUS BF726459 530 bp mRNA linear EST 05-JAN-2001

DEFINITION by06h03.y1 Human Lens cDNA (Un-normalized, unamplified): BY Homo

ACCESSION BF726459

VERSION BF726459.1 GI:12042370

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS Wistow,G.J., Bernstein,S., Behal,A. and Smith,D.

TITLE Wistow,G.J., Bernstein,S., Behal,A. and Smith,D.

JOURNAL NEUBANK: EST analysis and bioinformatics for ocular genomics Invest. Ophthalmol. Vis. Sci. 41, (2000) In press

COMMENT Contact: Wistow G

Section on Molecular Structure and Function

National Eye Institute

6/331, NIH, Bethesda, MD 20892-2740, USA

Fax: 301 402 3452

Fax: 301 496 0078

Email: greamehelix.nih.gov

Plate: 06 row: h column: 03

Seq primer: M13R1 reverse primer (ABI).

FEATURES

source

1..530

Location/Qualifiers

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_id="by06h03"

/clone\_1lb="Human Lens cDNA (Un-normalized, unamplified): BY"

/tissue\_type="Lens"

/dev\_stage="Adult"

/lab\_host="EMDH10B"

/note="Organ: Eye; Vector: PCWVSPO6; Two human lenses from different adults (both approximately 40 years old) together yielded 20ug of total RNA and 150ng mRNA for cDNA library synthesis. A directionally cloned cDNA library in the PCWVSPO6 vector was constructed at Life Technologies essentially following the protocols of the Superscript Plasmid System full details of which are contained in the manufacturer's instruction manual (http://www.lifetechn.com/). First strand synthesis was carried out using a Not I primer-adaptor (5'-GACTAGTCTAGATCGGACGCGCCGCTT)15-3'. Not I/BlnI end inserts were cloned into the Not I/EcoR V sites in the vector. EST analysis was performed on the unamplified library at the NIH Intramural Sequencing Center (NISC)."

BASE COUNT 157 a 112 c 138 g 123 t

ORIGIN

Query Match 24.9%; Score 473; DB 12; Length 530;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 473; Conservative 0;

Qy 1406 GGACAGCACTGACGACGACCGCGGCAAGTGTCTGAGGACACCGTGTACAGAGCGG 1465

Db 1 GGACAGCACTGACGACGACCGCGGCAAGTGTCTGAGGACACCGTGTACAGAGCGG 60

Qy 1466 GTTGATGACCGAGCTGAGTGAAGAAAGCTCTCGAGAAAGGAGAGATCATGTACGC 1525

Db 61 GTTGATGACCGAGCTGAGTGAAGAAAGCTCTCGAGAAAGGAGAGAGATCATGTACGC 120

Qy 1526 CCGAGTAGAGACCTTCGTCACAGTGTGCTGGTGTGGCGGAGCCATGATCTCCGAA 1585

Db 121 CCGAGTAGAGACCTTCGTCACAGTGTGCTGGTGTGGCGGAGCCATGATCTCCGAA 180

Qy 1586 CTGGTGGGCAATCCAGCATACGAGCCCAATGTCACAAATACAGCCCTGGGACAGAGC 1645

Db 181 CTGGTGGGCAATCCAGCATACGAGCCCAATGTCACAAATACAGCCCTGGGACAGAGC 240

Qy 1646 AGGAGGAGAGACAGAGAAAGAAAGAAACACAGCATGAGACACATTAATGATTAAC 1705

Db 241 AGGAGGAGAGACAGAGAAAGAAAGAAACACAGCATGAGACACATTAATGATTAAC 300

Qy 1706 ATAAATATTTAGCCCTCTGTTCTGTGCTTCTGCTGCTGCGGCAAGATGATTTTCA 1765

Db 301 ATAAATATTTAGCCCTCTGTTCTGTGCTTCTGCTGCTGCGGCAAGATGATTTTCA 360

Qy 1766 GTTGTGACCTTGACAGCTTCTTTTGCACACAGAGAGAAATTAACAGTGTTCAAAC 1825

Db 361 GTTGTGACCTTGACAGCTTCTTTTGCACACAGAGAGAAATTAACAGTGTTCAAAC 420

Qy 1826 CCGGGGAGCTTGGCTGTGTAAAGAAAGCCATTAATGCTTTAGACAGTGA 1878

Db 421 CCGGGGAGCTTGGCTGTGTAAAGAAAGCCATTAATGCTTTAGACAGTGA 473

RESULT 24

LOCUS AL538562 920 bp mRNA linear EST 16-FEB-2001

DEFINITION AL538562 LTI\_FL013\_FBn1 Homo sapiens cDNA clone CS0DF024Y004 5

ACCESSION AL538562

VERSION AL538562.1 GI:12866967

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

AUTHORS Li,W.B., Gruber,C., Jesse,J. and Polayes,D.

TITLE Full-length cDNA libraries and normalization

JOURNAL Unpublished (2001)

COMMENT Contact: Genoscope

Genoscope - Centre National de Sequencage

BP 191 91006 Evry cedex - France

Email: seqref@genoscope.cns.fr. Web : www.genoscope.cns.fr.

FEATURES

source

1..920

Location/Qualifiers

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_id="CS0DF024Y004"

/clone\_1lb="LTI\_FL013\_FBn1"

/dev\_stage="pooled tissue from post conception fetuses (20 week, 24 week and 26 week)"

/lab\_host="DH10B"

/note="Organ: Fetal brain; Vector: PCWVSPO6; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and cloned into the Not I and Eco RV sites of the PCWVSPO6 vector. Library was constructed by Life Technologies. Contact : Feng Liang Life Technologies, a division of Invitrogen 9800 Medical Center Drive Rockville , Maryland 20850, USA Fax : (1) 301 610 8371 Email : fliang@lifetechn.com URL : http://fulllength.invitrogen.com"

BASE COUNT 172 a 285 c 257 g 199 t

ORIGIN

Query Match 24.9%; Score 472; DB 9; Length 920;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 472; Conservative 0;



Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:

www-bio.llnl.gov/dbp/image/image.html

Insert Length: 1161 Std Error: 0.00

Seq primer: -400P from Gibco

High quality sequence stop: 444.

## FEATURES

## Source

1. 515

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:2009444"

/clone\_1lb="NCI CGAP GC6"

/tissue\_type="pooled germ cell tumors"

/lab\_host="DH10B"

/note="Vector: pT73D-Pac (Pharmacia) with a modified

polylinker. Site\_1: Not I; Site\_2: Eco RI; Plasmid DNA

from the normalized library NCI CGAP-GC4 was prepared, and

ss circles were made in vitro. Following HAP purification,

this DNA was used as tracer in a subtractive hybridization

reaction. The driver was PCR-amplified cDNAs from a pool

of 5,000 clones made from the same library (cloneids

1257096-1258631, 1469064-1470983, and 1475592-1476743).

Subtraction by Bento Soares and M. Fatima Bonaldo.

BASE COUNT 103 a 142 c 119 g 151 t

## ORIGIN

## Query Match

24.5%; Score 464; DB 9; Length 515;

## Best Local Similarity

99.8%; Pred. No. 0;

## Matches 514; Conservative

0; Mismatches 1; Indels 0; Gaps 0;

Location/Qualifiers

## FEATURES

1. 690

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:2620569"

/clone\_1lb="NCI CGAP Brn50"

/tissue\_type="medulloblastoma"

/lab\_host="DH10B (phage resistant)"

/note="Organ: brain; Vector: pT73D-Pac (Pharmacia) with a

modified polylinker; 1st strand cDNA was prepared from a

medulloblastoma tumor tissue, and was then primed with a

Not I - oligo(dT) primer. Double-stranded cDNA was ligated

to Eco RI adaptors (Pharmacia), digested with Not I and

cloned into the Not I and Eco RI sites of the modified

pT73 vector. This library is normalized. Library

constructed by Bento Soares and M. Fatima Bonaldo.

BASE COUNT 142 a 196 c 160 g 191 t 1 others

## ORIGIN

## Query Match

23.4%; Score 444; DB 10; Length 690;

## Best Local Similarity

99.5%; Pred. No. 0;

## Matches 594; Conservative

0; Mismatches 3; Indels 0; Gaps 0;

Location/Qualifiers

AM149665  
AM149665.1 GI:6197561

## VERSION

## KEYWORDS

## SOURCE

## ORGANISM

## REFERENCE

## AUTHORS

## TITLE

## JOURNAL

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## JOURNAL

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## JOURNAL

OY	1642	GAGCAGGAGGAGACACAGAAAAAACCACATGAGAACACAGTAATGAATA	1701
Db	247	GAGCAGAAGAAAGACACAGAAAACACACATGAGAACACAGTAAATTAATA	188
OY	1702	AACCATAAATATTATAGCCCTGTCTTGTTCTGTTACTGGCCAGAAATGTGCCAATT	1761
Db	187	AACCATAAATATTATAGCCCTGTCTTGTTCTGTTACTGGCCAGAAATGTGCCAATT	128
OY	1762	TTCAGTGTGGACTTGACAGCTTCTTTTGCACACAGCAAGAGAAATTTAACACTGTTTC	1821
Db	127	TTCAGTGTGGACTTGACAGCTTCTTTTGCACACAGCAAGAGAAATTTAACACTGTTTC	68
OY	1822	AAACCCGGGGAGTTGGCGTGTAAAGAAACCATTAATGCTTTACACAGTGA	1878
Db	67	AAACCCGGGGAGTTGGCGTGTAAAGAAACCATTAATGCTTTACACAGTGA	11
RESULT 28			
BM667957/c			
LOCUS	BM667957	538 bp	mRNA linear EST 27-FEB-2007
DEFINITION	UI-E-DMO-gsm-j-01-0-0-UI.s1 UI-E-DMO Homo sapiens cDNA clone		
ACCESSION	U1-E-DMO-gsm-j-01-0-0-UI 3', mRNA sequence.		
VERSION	BM667957		
KEYWORDS	BM667957.1 GI:18975788		
SOURCE	EST.		
ORGANISM	human.		
	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Crinata; Vertebrata; Euteleostomi;		
	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
REFERENCE	1 (bases 1 to 538)		
AUTHORS	Bonaldo,M.F., Lennon,G. and Soares,M.B.		
TITLE	Normalization and subtraction: two approaches to facilitate gene discovery		
JOURNAL	Genome Res. 6 (9), 791-806 (1996)		
MEDLINE	97044477		
COMMENT	Contact: Soares, MB Program for Rat Gene Discovery and Mapping University of Iowa 451 Eckstein Medical Research Building Iowa City, IA 52242, USA Tel: 319 335 8250 Fax: 319 335 9565 Email: msoares@blue.weeg.uiowa.edu Tissue Procurement: Dr. Gregg Hageman cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa DNA Sequencing by: Dr. M. Bento Soares, University of Iowa Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com). Seq primer: M13 Forward POLYA=yes.		

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FEATURES
source
location/Qualifiers
1..538
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="UI-E-DW0-agn-f-01-01-UI"
/clone_id="UI-E-DW0"
/lssue_type="lens"
/dev_stage="adult"
/lab_host="DH10B (Life Technologies) (T1 phage resistant)"
/notes="Organ: eye; Vector: pRT73-Pac (Pharmacia) with a
modified polylinker; Site.1: EcoR I; Site.2: Not I;
UI-E-DW0 is a cDNA library containing the following
tissue(s): lens. The library was constructed according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pRT73-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (drr)18 tail. The
sequence tag for this library is CGATTACCGA. This library
was created for the program, Gene Discovery in the Visual

```

BASE COUNT	ORIGIN
104	a
144	c
122	g
167	t
1	others

Query Match	23.28;	Score 440;	DB 13;	Length 538;
Best Local Similarity	99.88;	Pred. No. 0;		
Matches 490; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

QY	1405	AGCAGAGCACCCTGCAGAAACACCCGCCGAACTGCTGGGAGACACCCGTCACAGAGCG	1464
Db	491	AGCAGAGCACCCTGCAGAAACACCCGCCGAACTGCTGGGAGACACCCGTCACAGAGCG	432
QY	1465	GTTGATGACCGAGCTGAGTAGAAAAACGTCTCCGAGAGGAGGAGAGATCATGTACG	1524
Db	431	GTTGATGACCGAGCTGAGTAGAAAAACGTCTCCGAGAGGAGGAGAGATCATGTACG	372
QY	1525	CCCGGAATGAGACCTGCTCCAGTGTGCTGGGTGGGCGCCGACCAATGATCCTCCGA	1584
Db	371	CCCGGAATGAGACCTGCTCCAGTGTGCTGGGTGGGCGCCGACCAATGATCCTCCGA	312
QY	1585	TCTGTTGGCATTCAGCATACGCGCAATGTCTACAACAATCAGCCCTGGCGACAGCAG	1644
Db	311	TCTGTTGGCATTCAGCATACGCGCAATGTCTACAACAATCAGCCCTGGCGACAGCAG	252
QY	1645	CAGGAGGAGAGACAGAAAGAAAAACACACGATGAGAACACAGTAATGATTAANAAC	1704
Db	251	CAGGAGGAGAGACAGAAAGAAAAACACACGATGAGAACACAGTAATGATTAANAAC	192
QY	1705	CATAAATATTTAGCCCCCTCTGTCTGTGCTTACTGCGCAGGAATGTTACCAATTTTTC	1764
Db	191	CATAAATATTTAGCCCCCTCTGTCTGTGCTTACTGCGCAGGAATGTTACCAATTTTTC	132
QY	1765	AGTGTGGACTTGACAGCTCTTTTCCACAAGCAGAAGAAATTTAACTGTTTCAA	1824
Db	131	AGTGTGGACTTGACAGCTCTTTTCCACAAGCAGAAGAAATTTAACTGTTTCAA	72
QY	1825	CCCGGGGAGTTGGCTGTGTTAAAGAAAGACATTAAATGCTTTAGACAGTGTAAAAAA	1884
Db	71	CCCGGGGAGTTGGCTGTGTTAAAGAAAGACATTAAATGCTTTAGACAGTGTAAAAAA	12
QY	1885	AAAAAAAAAAAA 1895	
Db	11	AAAAAAAAAAAA 1	

RESULT 29	500 bp	MRNA	linear	EST 13-Oct-1999
AM075598/c				
LOCUS	AM075598			
DEFINITION	xb24607.x1 NCI-CGAP_k1d13 Homo sapiens cDNA clone IMAGE:2577252 3'			
	similar to SW:CP39_HUMAN O43194 PUTATIVE G PROTEIN-COUPLED RECEPTOR			
ACCESSION	GP39.., mRNA sequence.			
VERSION	AM075598			
KEYWORDS	AM075598.1 GI:6030596			
SOURCE	EST.			
ORGANISM	human.			
	Homo sapiens			
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
AUTHORS	1 (bases 1 to 500)			
TITLE	NCI-CGAP <a href="http://www.ncbi.nlm.nih.gov/ncicgap">http://www.ncbi.nlm.nih.gov/ncicgap</a> .			
	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),			
	Tumor Gene Index			
JOURNAL	Unpublished (1997)			
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: Chris Moskalko, M.D., Ph.D., Michael R. Emmett-Buck, M.D., Ph.D. cDNA library preparation: Life Technologies, Inc. cDNA library Arrayed by: Christa Prange, The I.M.A.G.E. Consortium DNA Sequencing by: Washington University Genome Sequencing Center			



[illegible]

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FEATURES
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1. 1134
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_image="3845557"
/clone_id="NH_MGC_21"
/tissue_type="choriocarcinoma"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: placenta; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming
directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GCGACGAC(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```

Query Match	22.5%	Score 426	DB 12	Length 1134
Best Local Similarity	100.0%	Pred. No. 0		
Matches 426	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	26	GGCCCGGAGAGCCGAGCGGAGAGAGACAGACCCGACCGCGAGCCGAGCGGGCGA	85	
Db	1	GGCCCGGAGAGCGGAGCGGAGAGAGACAGACCCGACCGCGAGCCGAGCGGGCGA	60	
QY	86	TGCAGGCTCCGCGAGCGGACACTTCGGCTCTCTTAAGCTACGACCGTGTCTCCGGGCA	145	
Db	61	TGCAGGCTCCGCGAGCGGACACTTCGGCTCTCTTAAGCTACGACCGTGTCTCCGGGCA	120	
QY	146	GCAAGCGGGGGCCGACGAGCCTTCGGACGACACCGGTGCAGCGGGGAGAGCTTCGGCT	205	
Db	121	GCAAGCGGGGGCCGACGAGCCTTCGGACGACACCGGTGCAGCGGGGAGAGCTTCGGCT	180	
QY	206	GCTTCGCCCTCTCTGTATGCGGCTTGCCCTCTCCGGGCCCGGGAGCTCCGGAGAAATGTGG	265	
Db	181	GCTTCGCCCTCTCTGTATGCGGCTTGCCCTCTCCGGGCCCGGGAGAAATGTGG	240	
QY	266	GTCCTAGGACATCGGGGCAACTTTTGGGGAGTGTCTTTCGTTCCAGGCTTTGGCCTGCAA	325	
Db	241	GTCCTAGGACATCGGGGCAACTTTTGGGGAGTGTCTTTCGTTCCAGGCTTTGGCCTGCAA	300	
QY	326	ATCCAGTGCACACAGTGTGAAGAAATTCACGTGAAACAACAGCACTCTCTCCCGGAGTTC	385	
Db	301	ATCCAGTGCACACAGTGTGAAGAAATTCAGAGTGAACAACAGCACTCTCTCCCGGAGTTC	360	
QY	386	ATTGTGAATTCGACGAGCAACGTTTCAAGACATGTGTAGAAAGAGTGTAGAGCAAAAGT	445	

Primer	Sequence	Position
D <sub>b</sub>	ATTGTGATTTCACGGTGAACGTTCAAGACATCTGTCTAGAAAGAATGATGACCAAGT	426
O <sub>Y</sub>	446 GCCGGG 451 	
D <sub>b</sub>	421 GCCGGG 426	

RESULT	32				
LOCUS	A1150931/c				
DEFINITION	A1150931 467 bp mRNA linear EST 26-OCT-1991				
	gb53c04.x1	NCI CGAP Brn23 Homo sapiens	CDNA clone IMAGE:1703814	3'	
	similar to SW:NR1_FAT P20789 NEUROTENSIN RECEPTOR TYPE 1 ; mRNA				
	sequence.				
ACCESSION	A1150931				
VERSION	A1150931.1				
KEYWORDS	EST.				
SOURCE	human.				
ORGANISM	Homo sapiens				
					GI:3679400

JOURNAL COMMENT

JOURNAL  
 COMMENT  
 Unpublished (1998)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-remail.nih.gov  
 Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D.,  
 Ph.D.  
 cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima  
 Bonaldo, Ph.D.  
 DNA Sequencing by: Greg Lennon, Ph.D.  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/TLNL at:  
 www-bio.llnl.gov/bbrp/image/image.html  
 Insert length: 1149 Std Error: 0.00  
 Seq primer: -40ml3 fwd. ET from Amersham  
 High quality sequence stop: 425.

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FEATURES
source
Location/Qualifiers
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1703814"
/clone_1kb="NCI CGAP_Brn23"
/tissue_type="q1oblastoma (pooled)"
/lab_host="DH10B"
/note="Organ: brain; Vector: p773D-Pac (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with Not I - oligo(dT) primer [5'-
TGTACCAATCTGAAGTGGAGCGCGCCGACATATCTTTTTTTTTTTTTTTT
T3']; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified p773 vector.
Library is normalized, and was constructed by Bento
Soares and M.Fatima Bonaldo."
106 a 119 c 92 g 150 t

```

	Query Match	22.4%	Score 425;	DB 9;	Length 467;
	Best local Similarity	100.0%;	Pred. No. 0;		
	Matches 425;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1454	GTACAGAGAGCGGGTTGATGACCGAGCTGTAGAAAACTCTCCGAGAGGGAGAG	1513		
Db	467	GTACAGAGAGCGGGTTGATGACCGAGCTGTAGAAAACTCTCCGAGAGGGAGAG	408		
QY	1514	GATCATGTACGCCCGGGAAGTAGACCTCTGCTGCTTGGGTTGGCCGAGCCAT	1573		
Db	407	GATCATGTACGCCCGGGAAGTAGACCTCTGCTGCTTGGGTTGGCCGAGCCAT	348		



QY	1574	GATCCTCCGAAATCTGGTTGGGCAATCCACAGATACGGCCAAATGTCAACAAATACACCCCTGG	1633
Db	347	GATCCTCCGAAATCTGGTTGGGCAATCCACAGATACGGCCCAATGTCAACAAATACACCCCTGG	288
QY	1634	GCAGACACGACGACGAGGAGGAGACACAGAAAAAAGAAAAACACAGCATGAGAACACAGTAA	1693
Db	287	GCAGACACGACGACGAGGAGGAGAGACAGAAAAAAGAAAAACACACATGAGAGAACACAGTAA	228
QY	1694	ATGAAATAAACCATTAATAATATTAGCCCTCTGTGTCTGTCTACTGCGCCAGGAATGGT	1753
Db	227	ATGAAATAAACCATTAATAATATTAGCCCTCTGTGTCTGTCTACTGCGCCAGGAATGGT	168
QY	1754	ACCAATTTTTCAGTGTGGACTTGCACAGCTCTTTTGGCAACAAGCAGAGAAATTTTAC	1813
Db	167	ACCAATTTTTCAGTGTGGACTTGCACAGCTCTTTTGGCAACAAGCAGAGAAATTTTAC	108
QY	1814	ACTGTTTCAAAACCCGGGGGAGTGTGGCTGTGTTAAAGAAAGACATTAAATGCTTTAGACA	1873
Db	107	ACTGTTTCAAAACCCGGGGGAGTGTGGCTGTGTTAAAGAAAGACATTAAATGCTTTAGACA	48
QY	1874	GTGTA	1878
Db	47	GTGTA	43

RESULT	33
BEST36607	480 bp mRNA linear EST 14-JUL-2000
LOCUS	b9688e04.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030654 5' , mRNA
DEFINITION	
ACCESSION	BEST36607
VERSION	BEST36607
KEYWORDS	sequence.
SOURCE	BEST36607.1 GI:9189000
	EST.
	human.

REFERENCE	Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi: Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.
AUTHORS	1 (bases 1 to 480)
TITLE	NIH-MGC (http://mgc.nci.nih.gov/).
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
COMMENT	Other_Estrs: db06b04.x1

CDNA library Preparation: Ling Hong/Rubin Laboratory  
CDNA library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
[image.llnl.gov/image/html/resources.shtml](http://image.llnl.gov/image/html/resources.shtml)  
Seq. primer: -40RP from Gibco  
High quality sequence stop: 449.

FEATURES	Location/Qualifiers
source	1. .480

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/organism="Homo sapiens"
/db xref="taxon:9606"
/clone="IMAGE:3030654"
/clone_1b="NIH_MGC_9"
/tissue_type="adenocarcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/note="Organ: ovary; Vector: pORF7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GCCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```

Query Match	22.48; Score 425; DB 10; Length 480;
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Best Local Similarity 99.8%; Pred.No. 0;  
Matches 475; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	1	GCCAACTCCGAGAGCTCTGTGTCTCGGCGCGGAGCGGACGGGAGAGACAGAGATCCG	60
Db	1	GCCAACTCCGAGAGCTCTGTGTCTCGGCGCGGAGCGGAGCGGAGAGAGAGAGATCCG	60
QY	61	CAGCCGGAGACCCGAGAGCGGCGGCGATGAGAGCTCCGCGAGCGGACCGCGGGCTCTCTA	120
Db	61	CAGCCGGAGAGCCGAGAGCGGCGGCGATGAGAGCTCCGCGAGCGGACCGCGGGCTCTCTA	120
QY	121	AGCTACGACCGTCTCTCTCCGCGGAGCAGCGCGGGGCCACAGAGCTTGGCAGCCACAGC	180
Db	121	AGCTACGACCGTCTCTCTCCGCGGAGCAGCGCGGGGCCACAGAGCTTGGCAGCCACAGC	180
QY	181	CGCTGCAGCCGGGGGAGCGCTCCGCTGCTGTGCGCTCTCTATGCGCTTGGCCCTCTCCG	240
Db	181	CGCTGCAGCCGGGGGAGCGCTCCGCTGCTGTGCGCTCTCTATGCGCTTGGCCCTCTCCG	240
QY	241	GCCCCGGGACATCCGGGAAATGTGGGTCTTAAAGCATGCGCGCACTTTTGGCGATGTT	300
Db	241	GCCCCGGGACATCCGGGAAATGTGGGTCTTAAAGCATGCGCGCACTTTTGGCGATGTT	300
QY	301	CTTGCTTCCAGGCTTTTGGCTGTCAATCCAGTGCATCCAGTGTGAAGATTCCAGCTGAA	360
Db	301	CTTGCTTCCAGGCTTTTGGCTGTCAATCCAGTGCATCCAGTGTGAAGATTCCAGCTGAA	360
QY	361	CAAGACATGCTCTCCCGGAGTTCAATTGTGAATGGACGGTGAACGTTCAAGACATGTG	420
Db	361	CAAGACATGCTCTCCCGGAGTTCAATTGTGAATGGACGGTGAACGTTCAAGACATGTG	420
QY	421	TCAGAAAGATGATGAGAGCAAAATGCGCGGATCATGTACCGCAAGTCTGTGCAT	476
Db	421	TCAGAAAGATGATGAGAGCAAAATGCGCGGATCATGTACCGCAAGTCTGTGCAT	476

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RESULT 34
BF126050
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 759)
NIH-MGC http://mgc.ncl.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strusberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC/DCT/DTF
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: L10CM855 row: 0 column: 21
High quality sequence stop: 723.
Location/Qualifiers
1..759
FEATURES
Source

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"organism":"Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4026092"
/clone.lib="NH.MGC.20"
/tissue_type="melanotic melanoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: skin, Vector: pORF7; Site_1: XhoI; Site_2
Cloned into EcoRI/XhoI sites using the following 5'

```

adaptor: GGCAAGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 191 a 192 c 221 g 155 t  
 ORIGIN

Query Match 22.4%; Score 424; DB 12; Length 759;  
 Best Local Similarity 100.0%; Pred. No. 0;

Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1186 TGGGCTCTAGTACTCGAGTCAATGATGAGTCTGAGTGGGCTCGGCTCTCT 1245  
 DB 76 TGGGCTCTAGTACTCGAGTCAATGATGAGTCTGAGTGGGCTCGGCTCTCT 135  
 QY 1246 GAAAGTCTTAAAGAAATCTTCTCAATCTCTTGCAGAGACTGGGCGGAGCGGA 1305  
 DB 136 GAAAGTCTTAAAGAAATCTTCTCAATCTCTTGCAGAGACTGGGCGGAGCGGA 195  
 QY 1306 AGAGCAAGGGCGCTGCACAAAGCGGCGCTGCTGGTGGTGAATGCGCATGACGCCA 1365  
 DB 196 AGAGCAAGGGCGCTGCACAAAGCGGCGCTGCTGGTGGTGAATGCGCATGACGCCA 255  
 QY 1366 GGGCTCTCTGCTGGTGGGCGTGCAGAGAGCGGCGGAGACAGACCTGACGAACA 1425  
 DB 256 GGGCTCTCTGCTGGTGGGCGTGCAGAGAGCGGCGGAGACAGACCTGACGAACA 315  
 QY 1426 CCGCGCGAAACTGCTGCGAGAGACCGTGTACAGAGAGCGGCTGTATACGAGTGAAGT 1485  
 DB 316 CCGCGCGAAACTGCTGCGAGAGACCGTGTATACAGAGAGCGGCTGTATACGAGTGAAGT 375  
 QY 1486 AGAAAAAGCTCTCCGAGAAAGGAGAGATCATGTACGCCCGGAGTAGAGACTCTGTC 1545  
 DB 376 AGAAAAAGCTCTCCGAGAAAGGAGAGATCATGTACGCCCGGAGTAGAGACTCTGTC 435  
 QY 1546 AGTGTCTCTGGGTTGGCGGAGACCATGATCCCGAATCTGGTGGGATCCAGCATTA 1605  
 DB 436 AGTGTCTCTGGGTTGGCGGAGACCATGATCCCGAATCTGGTGGGATCCAGCATTA 495  
 QY 1606 CGGC 1609  
 DB 496 CGGC 499

RESULT 35  
 LOCUS BF125134 843 bp mRNA linear EST 24-OCT-2000  
 DEFINITION 601762356F1 NIH\_MGC\_20 Homo sapiens cDNA clone IMAGE:4025340 5',  
 mRNA sequence.  
 ACCESSION BF125134  
 VERSION BF125134.1 GI:10964174  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 843)  
 NIH-MGC http://mgi.nci.nih.gov/.  
 National Institutes of Health, Mammalian Gene Collection (MGC)  
 Unpublished (1999)  
 Contact: Robert Strausberg, Ph.D.  
 Email: cgapbs-r@mail.nih.gov  
 Tissue Procurement: ATCC/DCTD/DP  
 CDNA Library Preparation: Ling Hong/Rubin Laboratory  
 DNA Sequencing by: The I.M.A.G.E. Consortium (LNL)  
 Clone distribution: MGC clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LNL at: image.lnl.gov  
 Plate: LIC853 row: p column: 13  
 High quality sequence stop: 711.

FEATURES  
 source I. 843  
 Location/Qualifiers

/organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:4025340"  
 /clone\_lib="NIH\_MGC\_20"  
 /tissue\_type="melanoma"  
 /lab\_host="DH10B (phage-resistant)"  
 /note="Organ: skin; Vector: pOTB7; Site: 1: XhoI; Site: 2:  
 EcoRI; cDNA made by oligo-dT priming. Directionally  
 cloned into EcoRI/XhoI sites using the following 5'  
 adaptor: GGCAAGAG(G). Size-selected >500bp for average  
 insert size 1.8kb. Library constructed by Ling Hong in  
 the laboratory of Gerald M. Rubin (University of  
 California, Berkeley) using ZAP-cDNA synthesis kit  
 (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 225 a 192 c 255 g 171 t  
 ORIGIN

Query Match 22.4%; Score 424; DB 12; Length 843;  
 Best Local Similarity 100.0%; Pred. No. 0;

Matches 424; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1186 TGGGCTCTAGTACTCGAGTCAATGATGAGTCTGAGTGGGCTCGGCTCTCT 1245  
 DB 76 TGGGCTCTAGTACTCGAGTCAATGATGAGTCTGAGTGGGCTCGGCTCTCT 135  
 QY 1246 GAAAGTCTTAAAGAAATCTTCTCAATCTCTTGCAGAGAGACTGGGCGGAGCGGA 1305  
 DB 136 GAAAGTCTTAAAGAAATCTTCTCAATCTCTTGCAGAGAGACTGGGCGGAGCGGA 195  
 QY 1306 AGAGCAAGGGCGCTGCACAAAGCGGCGCTGCTGGTGGTGAATGCGCATGACGCCA 1365  
 DB 196 AGAGCAAGGGCGCTGCACAAAGCGGCGCTGCTGGTGGTGAATGCGCATGACGCCA 255  
 QY 1366 GGGCTCTCTGCTGGTGGGCGTGCAGAGAGCGGCGGAGACAGACCTGACGAACA 1425  
 DB 256 GGGCTCTCTGCTGGTGGGCGTGCAGAGAGCGGCGGAGACAGACCTGACGAACA 315  
 QY 1426 CCGCGCGAAACTGCTGCGAGAGACCGTGTACAGAGAGCGGCTGTATACGAGTGAAGT 1485  
 DB 316 CCGCGCGAAACTGCTGCGAGAGACCGTGTATACAGAGAGCGGCTGTATACGAGTGAAGT 375  
 QY 1486 AGAAAAAGCTCTCCGAGAAAGGAGAGATCATGTACGCCCGGAGTAGAGACTCTGTC 1545  
 DB 376 AGAAAAAGCTCTCCGAGAAAGGAGAGATCATGTACGCCCGGAGTAGAGACTCTGTC 435  
 QY 1546 AGTGTCTCTGGGTTGGCGGAGACCATGATCCCGAATCTGGTGGGATCCAGCATTA 1605  
 DB 436 AGTGTCTCTGGGTTGGCGGAGACCATGATCCCGAATCTGGTGGGATCCAGCATTA 495  
 QY 1606 CGGC 1609  
 DB 496 CGGC 499

RESULT 36  
 LOCUS BM709964 571 bp mRNA linear EST 28-FEB-2002  
 DEFINITION U1-E-COI-agg-c-21-0-UI.r1 UI-E-COI Homo sapiens cDNA clone  
 BM709964  
 ACCESSION BM709964  
 VERSION BM709964.1 GI:19023222  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 1 (bases 1 to 571)  
 Bonaldi,M.F., Dennon,G. and Soares,M.B.  
 Normalization and subtraction: two approaches to facilitate gene  
 discovery  
 JOURNAL Genome Res. 6 (9), 791-806 (1996)  
 MEDLINE 9704477  
 COMMENT Contact: Soares, MB

REFERENCE 1 (bases 1 to 571)  
 AUTHORS Bonaldi,M.F., Dennon,G. and Soares,M.B.  
 TITLE Normalization and subtraction: two approaches to facilitate gene  
 discovery  
 JOURNAL Genome Res. 6 (9), 791-806 (1996)  
 MEDLINE 9704477  
 COMMENT Contact: Soares, MB

Program for Rat Gene Discovery and Mapping  
University of Iowa  
451 Eckstein Medical Research Building Iowa City, IA 52242, USA  
Tel: 319 335 8250  
Fax: 319 335 9565

## FEATURES

Location/Qualifiers  
1. .571

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BASE COUNT
ORIGIN
100 a 189 c 170 g 109 t 3 others

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="UI-E-CQ1-agg-c-21-0-UI"
/clone_id="UI-E-CQ1"
/tissue_type="optic nerve"
/dev_stage="adult"
/lab_host="DH10B (Life Technologies) (T1 phage resistant)"
/note="Organ: eye; Vector: pT73-Pac (Pharmacia) with a modified polylinker; Site_1: EcoR I; Site_2: Not I; UI-E-CQ1 is a normalized cDNA library containing the following tissue(s): optic nerve. The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was ligated to an EcoR I adaptor, digested with Not I, and cloned directionally into pT73-Pac vector. The oligonucleotide used to prime the synthesis of first-strand cDNA contains a library tag sequence that is located between the Not I site and the (dT)18 tail. The sequence tag for this library is CCATTAGTG. This library was created for the program, Genome Discovery in the Visual System, supported by National Eye Institute (NEI)."
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QY	439	GCA	441
Db	435	GCA	437

RESULT 37

AL018765/C	537 bp	mRNA	linear	EST 27-AUG-1996
LOCUS	A1018769			
DEFINITION	ov22624.x1 Soares_testis_HNT Homo sapiens cDNA clone IMAGE:1639038			
	3' similar to SM:NTN1_RAT P20789 NEURENIN RECEPTOR TYPE 1 ;			
	mRNA sequence.			

ACCESSION	A1018769	GI:3232567
VERSION	A1018769.1	
KEYWORDS	EST.	
SOURCE	human.	
ORGANISM	Homo sapiens	

ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eumetazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 1 (bases 1 to 537)  
 NCI-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP).  
 Tumor Gene Index  
 Unpublished (1997)  
 Contact: Robert Strausberg, Ph.D.  
 JOURNAL COMMENT

## FEATURES

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_1 IMAGE:1639038"
/clone_1b="Soares_test15_NHT"
/sex="male"
/lab_host="DH10B"
/notes="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
was prepared from mRNA obtained from Clontech Laboratories
, Inc., and primed with a Not I - oligo(dT) primer [5'
TGTTCCCAATCTGAGGTGGAGCGCCGCCCAATTGTTTTTTTTTTT 3'].
Double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not
I and Eco RI sites of the modified pT7T3 vector. Library
went through one round of normalization to C65, and was
constructed by Bento Soares and M. Fatima Bonaldo."

```

Db	357	AGGACCTCGTCCAGTGTGCTGGTGGTTTGGCCGACACCATGATCTCTCCGAATCTGGTTTG	298
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Db	297	GCATCCAGATACGGGCAATGTCCACACCATCAGCCCTGGCAGACACGAGAGGAGGA	238
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Db	237	GAGACAGAAAAGAAAAAACCAAGCATGAGAACCCGTAATGAATAAACATAAAAA	178
Qy	1714	TTTAGCCCCCTGTCTGTGCTTACTGTGCAGAGAAATGTTACCAATTTTTCAGTGTGA	1773
Db	177	TTTAGCCCCCTGTCTGTGCTTACTGTGCAGAGAAATGTTACCAATTTTTCAGTGTGA	118
Qy	1774	CTTGCACGTTCTTTTGGCCACAAGCAGAGAGAAATTTAACTGTTTCAAAACCCGGGGGA	1833
Db	117	CTTGCACGTTCTTTTGGCCACAAGCAGAGAGAAATTTAACTGTTTCAAAACCCGGGGGA	58
Qy	1834	CTTGCCTGTGTTAAAGAAAGACATTTAAATGCTTTAG	1870
Db	57	CTTGCCTGTGTTAAAGAAAGACATTTAAATGCTTTAG	21

RESULT	38
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LOCUS	609224.202871 NIH_MGC_95 Homo sapiens CDNA clone IMAGE:5284638 5'
DEFINITION	B1544761 mRNA linear EST 05-SEP-2001
ACCESSION	B1544761
VERSION	B1544761
KEYWORDS	GI:15432073
SOURCE	EST.
	human.

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
Mammalia; Euthetia; Primates; Catarrhini; Hominoidea; Homo.	1 (bases 1 to 688)	NIH-MGC <a href="http://mgc.nci.nih.gov/">http://mgc.nci.nih.gov/</a> .	National Institutes of Health, Mammalian Gene Collection (MGC)	Unpublished (1999)
Contact: Robert Strausberg, Ph.D.				

FEATURES	SOURCE
tissue Procurement: Miklos Palkovits, M.D., Ph.D. CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shihrakhi Toshiyuki and Piero Carninci (RIKEN) CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <a href="http://image.llnl.gov">http://image.llnl.gov</a> Plate: L16M1719 row: 9 column: 07 High quality sequence stop: 688. Location/Qualifiers I . 688	

BASE COUNT  
ORIGIN

123 a 223 c 223 g 119 t

/\*Organ: brain; Vector: pluscript (modified  
pluscript K5+); Site.1: BamHI; Site.2: SalI-XhoI (ctcgag  
); Oligo-dn primed using primer 5'-tgggttttttttttttttyn-3',  
size-selected for average insert size 2.5 kb and  
normalized to 10^6. This is a primary library enriched  
for full-length clones and constructed using the  
Cap-trapper method (Carninci, in preparation). Library  
constructed by M. Brownstein (NIMH/NHRI, National  
Institutes of Health). Note: this is a NIH\_MGC Library."\*/

Query match	21.5%;	Score 408;	DB 13;	Length 688;
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Best Local Similarity 100.0%; Pred. No. 0;  
Matches 408; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	19	GGTGTGCGGCCCCGGGAGCGCGAGCGGGAGACAGACAGACCCGAGCCGGAGCCCGAGG	78
Db	194	GGTGTGCGGCCCCGGGAGCGCGAGCGGGAGACAGACAGACCCGAGCCGGAGCCCGAGG	253
QY	79	CGGGCGATGTCAGAGCTCCGCGAGCGGACCTGCGGCTCTCTAAGTCAGACCGTCGTCTC	138
Db	254	CGGGCGATGTCAGAGCTCCGCGAGCGGACCTGCGGCTCTCTAAGTCAGACCGTCGTCTC	313
QY	139	CGGGCAGAGGCGGGGGCCCCAGAGCCCTGGGACACACAGCCGCTGCAGCCGGGGACGC	198
Db	314	CGGGCAGAGGCGGGGGCCCCAGAGCCCTGGGACACACAGCCGCTGCAGCCGGGGACGC	373
QY	199	CTCCGCTGCTGTGCGCTCTCTGATGAGCGTTCCCTCTCCGGCCCGGGAGCTCCGGGAG	258
Db	374	CTCCGCTGCTGTGCGCTCTCTGATGAGCGTTCCCTCTCCGGCCCGGGAGCTCCGGGAG	433
QY	259	AATGTGGGTCTCAGCGATCGCGGCAACTTTTGGCGATTGTCCTTCCAGGCTTTGC	318
Db	434	AATGTGGGTCTCAGCGATCGCGGCAACTTTTGGCGATTGTCCTTCCAGGCTTTGC	493
QY	319	GCTGCAAAATCCAGTCTCTACAGTGTGAAGAATTCACGTGGAACACACAGACTGCTCTCCCC	378
Db	494	GCTGCAAAATCCAGTCTCTACAGTGTGAAGAATTCACGTGGAACACACAGACTGCTCTCCCC	553
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RESULT	39			
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DEFINITION	BI669845	690 bp	mRNA	
ACCSSION	60329344	0P1	NIH_MGC_96	Homo sapiens CDNA clone IMAGE:5312889 5',
VERSION	BI669845			mRNA sequence.
KEYWORDS	BI669845.1	GI:15584078		
SOURCE	EST.			
ORGANISM	human.			
	Homo sapiens			

REFERENCE	1 (bases 1 to 690)
AUTHORS	NIH-MGC <a href="http://mgc.nci.nih.gov/">http://mgc.nci.nih.gov/</a> .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D.

FEATURES  
source  
tissue Procurement: Miklos Palkovits, M.D., Ph.D.  
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shihrak Toshiyuki and Piero Carninci (RIKEN)  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <http://image.lnll.gov>  
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Location/Qualifiers  
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size-selected for average insert size 2.3 kb and
normalized to ROT 5. This is a primary library enriched

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for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIH/NHGRI, National Institutes of Health). Note: this is a NIH-MGC library."

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			Gaps	2

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Db	282	AATGTGGGTCTAGGCAATCGGGGCAACTTTTGGGAAATGTTCCTTGGCTT	-CAGGCTTTGGC	3140
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Qy	378	CCGAGTCAATTTGATTTGACGAGGGAACGTTCAAGAATGTGTCAAGAAAGAAATGATGG		4337
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Qy	558	GCTGCACACCCCTTTTGTAAACGGGCCAAGGCCAAGAAAAGGGGAAGTTCTGCTCGG		6177
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Qy	618	CCCTCAGGCGCAGGGTCCGCGACACACATTCGATTTCTCAAAATTTAGCCCTC	667	
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VERSION	BE395797.1 GI:9341162
KEYWORDS	EST.
SOURCE	human.
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AUTHORS	Contact: Robert Strausberg, Ph.D.
TITLE	
JOURNAL	
COMMENT	

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 REFERENCE 1 (bases 1 to 396)  
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 AUTORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP).  
 TITLE Tumor Gene Index  
 JOURNAL Unpublished (1997)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgaps-remail.nih.gov  
 Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: Stratagene, Inc., David B. Krizman,  
 Ph.D.  
 CDNA Library Arraying: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bdrip/image/image.html](http://www-bio.llnl.gov/bdrip/image/image.html)  
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 DB 336 TGTACGCGAGGCGCTTCTGCTGGTGGCTGTCAGCAGAGCGGCGAGCAGCACC 277  
 QY 1416 TGCAGCAACACCCCGGAAACCTCTCGAGAGACCGGTGACAGAGAGCGGTTGATGACC 1475  
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 DB 276 TGCAGCAACACCCCGGAAACCTCTCGAGAGACCGGTGACAGAGAGCGGTTGATGACC 217  
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 DB 216 GAGCTGAGGTAGAAAAAGCTCTCGAGAGAGGAGGAGTCACTGACGCCCGGAAGTAG 157  
 QY 1536 GACCTGCTCACTGCTGCTGGTGGTGGCGAGCATGATCTCTCGAAATCTGTTGGGC 1595  
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 DB 156 GACCTGCTCACTGCTGCTGGTGGTGGCGAGCATGATCTCTCGAAATCTGTTGGGC 97  
 QY 1596 ATCCAGCATAGCGCAATGTCAACAATCAGCCCTGGGCAAGACAGAGAGAGAGAGA 1655  
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DB 36 GACAGAGAAAAAGAAACACAGCATGAGAACACAGT 1  
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 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE 1 (bases 1 to 452)  
 NCI/NINDS-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 AUTORS National Cancer Institute / National Institute of Neurological  
 Disorders and Stroke, Brain Tumor Genome Anatomy Project  
 (CGAP/BRGAP), Tumor Gene Index  
 UNPUBLISHED (1998)  
 COMMENT Contact: Robert Strausberg, Ph.D.  
 Email: cgaps-remail.nih.gov  
 Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D.,  
 Ph.D.  
 CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima  
 Bonaldo, Ph.D.  
 CDNA Library Arrayed by: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/bdrip/image/image.html](http://www-bio.llnl.gov/bdrip/image/image.html)  
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 strand cDNA was primed with a Not I - oligo(dT) primer (5'  
 TGTACCAATCTGAGAGGAGGAGGCGCGCATGATTTTATTTTATTTTATTTT  
 T 3'); double-stranded cDNA was ligated to Eco RI  
 adaptors (Pharmacia), digested with Not I and cloned into  
 the Not I and Eco RI sites of the modified pTZ19 vector.  
 Library is normalized, and was constructed by Bento  
 Soares and M. Fatima Bonaldo."  
 BASE COUNT 94 a 122 c 99 g 137 t  
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 QY 1433 AAATCTGCTGAGAGACACCGTGTACAGAGCGGTTGATGACGAGTGTAGAAAAA 1492  
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 DB 445 AAATCTGCTGAGAGACACCGTGTACAGAGCGGTTGATGACGAGTGTAGAAAAA 386  
 QY 1493 CGTCTCGAGAGAGGAGAGATCATGTACGCCCGGAAGTAGACCTGTCAGTGTG 1552  
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 DB 385 CGTCTCGAGAGAGGAGAGATCATGTACGCCCGGAAGTAGACCTGTCAGTGTG 326  
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 QY 1613 TGTACAAACATCAGCCCTGGGCGAGACAGAGAGGAGAGAGAGAAAAA 1672







115

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: November 7, 2002, 09:53:42 ; Search time 71.0849 Seconds  
(without alignments)  
8184.096 Million cell updates/sec

Title: US-09-970-966-214

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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 08  
Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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C 2	56.4	3.0	1872	3 US-09-299-843A-39	Sequence 39, Appl
C 3	56.4	3.0	1872	4 US-09-088-337B-39	Sequence 39, Appl
C 4	56.4	3.0	1872	5 PCT-US93-11153-39	Sequence 39, Appl
C 5	55.6	2.9	477	4 US-09-135-994-1	Sequence 1, Appl
C 6	55.4	2.9	1028	4 US-08-118-200-1	Sequence 1, Appl
C 7	55.4	2.9	1028	4 US-08-458-745-1	Sequence 1, Appl
C 8	50.8	2.7	10348	2 US-08-457-273B-41	Sequence 41, Appl
C 9	50.8	2.7	10348	3 US-08-556-419-13	Sequence 13, Appl
C 10	50.8	2.7	10348	4 US-09-041-886-14	Sequence 14, Appl
C 11	50.8	2.7	10366	1 US-08-246-982A-5	Sequence 5, Appl
C 12	50.8	2.7	10366	1 US-08-453-265-5	Sequence 5, Appl
C 13	50.2	2.7	7218	1 US-08-232-463-14	Sequence 14, Appl
C 14	50.2	2.7	7218	1 US-08-232-463-14	Sequence 14, Appl
C 15	50.2	2.6	4403765	4 US-09-103-840A-2	Sequence 2, Appl
C 16	50.2	2.6	4411529	4 US-09-103-840A-1	Sequence 1, Appl
C 17	49.4	2.6	6379	1 US-08-499-215-1	Sequence 1, Appl
C 18	49.4	2.6	7218	1 US-08-232-463-14	Sequence 14, Appl
C 19	49.2	2.6	4362	2 US-08-455-073A-1	Sequence 1, Appl
C 20	47.2	2.5	2625	4 US-09-245-041-18	Sequence 18, Appl
C 21	47.2	2.5	3765	3 US-07-705-490-1	Sequence 1, Appl
C 22	47.2	2.5	3765	4 US-07-751-891B-1	Sequence 1, Appl
C 23	47.2	2.5	8589	4 US-09-245-041-16	Sequence 16, Appl
C 24	47.2	2.5	4403765	4 US-09-245-041-14	Sequence 14, Appl
C 25	46.8	2.5	2846	4 US-09-613-182-5	Sequence 2, Appl
C 26	46.6	2.5	1176	4 US-09-200-090-3	Sequence 5, Appl
C 27	46	2.4	289	4 US-09-007-005-17	Sequence 17, Appl

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C 31	45.6	2.4	1342	3	US-08-832-399-1	Sequence 1, Appl
C 32	45.6	2.4	1342	4	US-09-372-498-1	Sequence 1, Appl
C 33	45.6	2.4	1575	3	US-08-858-876A-1	Sequence 1, Appl
C 34	45.6	2.4	1575	4	US-08-858-876A-1	Sequence 1, Appl
C 35	45.6	2.4	2419	4	US-09-245-041-8	Sequence 8, Appl
36	45.6	2.4	3000	4	US-08-460-269C-5	Sequence 5, Appl
37	45.6	2.4	8827	4	US-09-245-041-1	Sequence 1, Appl
38	45.4	2.4	4257	2	US-08-690-473-1	Sequence 1, Appl
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40	45.4	2.4	4257	4	US-08-843-659-1	Sequence 1, Appl
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C 42	44.8	2.4	700	1	US-09-236-097-7	Sequence 7, Appl
C 43	44.8	2.4	1071	2	US-08-997-080-180	Sequence 180, App
44	44.8	2.4	1071	2	US-08-997-362-180	Sequence 180, App
45	44.8	2.4	1071	4	US-09-095-855-180	Sequence 180, App

#### ALIGNMENTS

RESULT 1  
US-08-153-848-39/c  
; Sequence 39, Application US/08153848  
; Patent No. 5759804  
GENERAL INFORMATION:  
APPLICANT: Godiska, Ronald  
APPLICANT: Gray, Patrick W.  
APPLICANT: Schweikart, Vicki L.  
TITLE OF INVENTION: No. 5759804el Seven Transmembrane Receptors  
NUMBER OF SEQUENCES: 64  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &  
ADDRESSEE: Bicknell  
STREET: 6300 Sears Tower, 233 South Wacker Drive  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/153,848  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/977,452  
FILING DATE: 17-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 5759804and, Greta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE/DOCKET NUMBER: 31794  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 474-6300  
TELEFAX: (312) 474-0448  
TELEX: 25-3856  
INFORMATION FOR SEQ ID NO: 39:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1872 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 202..1341  
US-08-153-848-39











[illegible]

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RESULT 11
US-08-246-982A-5
: Sequence 5, Application US/08246982A
: Patent No. 5686288
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: GENERAL INFORMATION:
:   APPLICANT: MacDonald, Marcy E.
:   APPLICANT: Ambrose, Christine M.
:   APPLICANT: Duyao, Mabel P.
:   APPLICANT: Gusella, James F.
:   TITLE OF INVENTION: Huntingtin DNA, Protein And Uses Thereof
:   NUMBER OF SEQUENCES: 25
:
: CORRESPONDENCE ADDRESS:
:   ADDRESSEE: Sterne, Kessler, Goldstein & Fox
:   STREET: 1100 New York Avenue
:   CITY: Washington
:   STATE: D.C.
:   COUNTRY: U.S.A.
:   ZIP: 20005
:
: COMPUTER READABLE FORM:
:   MEDIUM TYPE: Floppy disk
:   COMPUTER: IBM PC compatible
:   OPERATING SYSTEM: PC-DOS/MS-DOS
:   SOFTWARE: Patent Release #1.0, Version #1.25
:   CURRENT APPLICATION DATA:
:     APPLICATION NUMBER: US/08/246,982A
:     FILING DATE: May 20, 1994
:
: CLASSIFICATION: 435
:
: ATTORNEY/AGENT INFORMATION:
:   NAME: Goldstein, Jorge, A.
:   REGISTRATION NUMBER: 29,021
:   REFERENCE/DOCKET NUMBER: 0609.3880002
:   TELECOMMUNICATION INFORMATION:
:     TELEPHONE: (202) 371-2600
:     TELEFAX: (202) 371-2540
:   INFORMATION FOR SEQ ID NO: 5:
:     SEQUENCE CHARACTERISTICS:
:       LENGTH: 10366 base pairs
:       TYPE: nucleic acid
:       STRANDEDNESS: single
:       TOPOLOGY: linear
:
: FEATURE:
:   NAME/KEY: CDS
:   LOCATION: 316..9748
:
: US-08-246-982A-5
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: Query Match 2.7%; Score 50.8; DB 1; Length 10366;
: Best Local Similarity 64.4%; Pred. No. 0.0049;
: Matches 76; Conservative 0; Mismatches 42; Indels 0; Gaps 0
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RESULT 12
US-08-453-265-5
: Sequence 5, Application US/08453265

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: Patent No. 5693757
: GENERAL INFORMATION:
: APPLICANT: Macdonald, Marcy E.
: APPLICANT: Ambrose, Christine M.
: APPLICANT: Duyao, Mabel P.
: APPLICANT: Guseilla, James F.
: TITLE OF INVENTION: Huntingtin DNA, Protein And Uses Thereof
: NUMBER OF SEQUENCES: 25
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Sterne, Kessler, Goldstein & Fox
: STREET: 1100 New York Avenue
: CITY: Washington
: STATE: D.C.
: COUNTRY: U.S.A.
: ZIP: 20005
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/453,265
: FILING DATE: 30-MAY-1995
: CLASSIFICATION: 514
: ATTORNEY/AGENT INFORMATION:
: NAME: Ludwig, Steven R.
: REGISTRATION NUMBER: 36,203
: REFERENCE/DOCKET NUMBER: 0609,3880003
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (202) 371-2600
: TELEFAX: (202) 371-2540
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 10366 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 316..9748
: US-08-453-265-5
:
: Query Match 2.7%; Score 50.8; DB 1; Length 10366;
: Best Local Similarity 64.4%; Pred. No. 0.0049;
: Matches 76; Conservative 0; Mismatches 42; Indels 0; Gaps 0.
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: QY 129 CCGTGTCTCCGCGGACAGCAGCGCGGCGCCCAAGCAGCTTCGGCAGCGACAGCCGCTGCAG 188
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: QY 189 CCGGGGAGAGCTCCGCTGTGTCGGCTCTCTGATGCGCTTCCCTCTCCGCGGCGCG 246
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: DB 499 CCGGTGCTGCTCTACAGCGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGACAGCGGCGG 556

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: RESULT 13
: US-08-233-463-14
: Sequence 14, Application US/08232463
: Patent No. 5670367
: GENERAL INFORMATION:
: APPLICANT: DORNER, F.
: APPLICANT: SCHEIFLINGER, F.
: APPLICANT: FALKNER, F. G.
: TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
: NUMBER OF SEQUENCES: 52
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Foley & Lardner
: STREET: 1800 Diagonal Road, Suite 500
: CITY: Alexandria
: STATE: VA
: COUNTRY: USA
: ZIP: 22313-0299
: COMPUTER READABLE FORM:

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GenCore version 5.1.3  
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Title: US-09-970-966-214

Perfect score: 1897

Sequence: 1 gccacactccgagagctctg.....aaaaaaaaaaaaaaaaaaaaa 1897

Scoring table: IDENTITY\_NUC

Searched: 320260 seqs, 177392727 residues

Total number of hits satisfying chosen parameters: 640520

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_NA:\*

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- 13: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1806.2	84.7	1619	10	US-09-825-294-205 Sequence 205, App
3	1606.2	84.7	1619	10	US-09-825-294-211 Sequence 211, App
4	624	32.9	625	10	US-09-825-294-210 Sequence 210, App
5	624	32.9	625	10	US-09-825-294-212 Sequence 1876, A
6	566.4	29.9	1010	10	US-09-825-294-208 Sequence 208, App
7	508.6	26.8	1362	10	US-09-825-294-212 Sequence 212, App
8	476.8	25.1	458	10	US-09-825-294-213 Sequence 213, App
9	433.2	22.8	409	10	US-09-867-701-2375 Sequence 2375, App
10	396.4	20.9	430	10	US-09-867-701-4240 Sequence 4240, App
11	378.6	20.0	430	10	US-09-867-701-4251 Sequence 4251, App
12	368.8	19.4	396	10	US-09-825-294-199 Sequence 199, App
13	365.4	19.3	396	10	US-09-825-294-199 Sequence 199, App
14	362	19.1	373	10	US-09-867-701-1516 Sequence 1516, App
15	354	18.7	381	10	US-09-867-701-1532 Sequence 1532, App
16	341.8	18.0	390	10	US-09-867-701-7826 Sequence 7826, App
17	310.2	16.4	349	10	US-09-867-701-2409 Sequence 2409, App
18	171.2	9.0	201	10	US-09-867-701-8894 Sequence 8894, App
19	56.4	3.0	1464	10	US-09-149-045-1 Sequence 1, Appl1

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C	21	49.4	2.6	1233	10	US-09-749-728B-2	Sequence 2, Appl1
C	22	47.8	2.5	2036	10	US-09-866-582-17	Sequence 17, Appl1
C	23	47.6	2.5	592	12	US-10-042-417-31	Sequence 31, Appl1
C	24	47.6	2.5	2561	12	US-10-023-529-48	Sequence 48, Appl1
C	25	47.6	2.5	2561	12	US-10-023-529-48	Sequence 48, Appl1
C	26	47.2	2.5	1791	10	US-09-416-384A-6	Sequence 6, Appl1
C	27	47.2	2.5	2625	10	US-09-893-238-18	Sequence 18, Appl1
C	28	47.2	2.5	4072	10	US-09-893-238-16	Sequence 16, Appl1
C	29	47.2	2.5	8589	10	US-09-893-238-14	Sequence 14, Appl1
C	30	45.6	2.4	1051	10	US-09-893-238-10	Sequence 10, Appl1
C	31	45.6	2.4	2419	10	US-09-893-238-8	Sequence 8, Appl1
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C	33	45.2	2.4	1614	12	US-10-023-529-45	Sequence 45, Appl1
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C	38	44.6	2.4	593	9	US-09-783-252-20	Sequence 20, Appl1
C	39	44.6	2.4	1203	9	US-09-945-182-29	Sequence 29, Appl1
C	40	44.6	2.4	4563	12	US-10-052-586-311	Sequence 311, App
C	41	44.4	2.3	2462	9	US-09-922-364A-48	Sequence 48, Appl1
C	42	43.8	2.3	601	12	US-10-078-929-29	Sequence 29, Appl1
C	43	43.8	2.3	894	10	US-09-815-242-4029	Sequence 4029, App
C	44	43.6	2.3	6483	10	US-09-880-107-3699	Sequence 3699, App
C	45	43.4	2.3	1794	10	US-09-793-306-145	Sequence 145, App

## ALIGNMENTS

RESULT 1  
US-09-825-294-214  
Sequence 214, Application US/09825294  
Patent No. US2002000491A1  
GENERAL INFORMATION:  
APPLICANT: Xu, Jiangchun  
APPLICANT: Stolk, John A.  
APPLICANT: Algate, Paul A.  
APPLICANT: Fling, Steven P.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
FILE REFERENCE: 210121.484C5  
CURRENT APPLICATION NUMBER: US/09/825,294  
NUMBER OF SEQ ID NOS: 215  
CURRENT FILING DATE: 2001-04-03  
SOFTWARE: FASTSEQ for Windows Version 3.0  
SEQ ID NO 214  
LENGTH: 1897  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)...(1897)  
OTHER INFORMATION: n = A,T,C or G  
US-09-825-294-214

Query Match 100.0%; Score 1896.2; DB 10; Length 1897;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1897; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 121 AGCTAGGAGCGCGAGCGAGCGAGCGAGCGAGCGAGCGAGCGAGCGAGCG 180

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DB	361	CAAGACATGCTCTCCCGCGAGTTCATGTGAATTCAGAGTGAAGCTTCAAGACATGAG	420
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QY	1081	GGCTGAGGGGCAATTCACACTCAAGGCTCCCTGCTTGACATTTCAAATTCATGCTGCT	1140
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[illegible]

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    |||||||
DB 1201 CTGAGTGTGAAGAAATGCTTGAAGAAATGCTTGAAGAAATGCTTGAAGAAATGCTTGAAG 1260
OY 1539 CTGCTCCAGTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGT 1598
    |||||||
DB 1261 CTGCTCCAGTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGT 1320
OY 1599 CAGCATACGCGCAATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1658
    |||||||
DB 1321 CAGCATACGCGCAATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
OY 1659 AGAGAAAGAAAGAAACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1718
    |||||||
DB 1381 AGAGAAAGAAAGAAACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
OY 1719 CCCCTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 1778
    |||||||
DB 1441 CCCCTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGT 1500
OY 1779 CAGCTCTTTTGGCAGAGAGAGAGATTTTAACACTGTTTCAAAACCCGGGGAGTTGG 1838
    |||||||
DB 1501 CAGCTCTTTTGGCAGAGAGAGAGATTTTAACACTGTTTCAAAACCCGGGGAGTTGG 1560
OY 1839 CTGTGTAAAGAAAGCAATTAATGCTTGAAGAGTGTAAAGAGAGAGAGAGAGAGAGAGAG 1897
    |||||||
DB 1561 CTGTGTAAAGAAAGCAATTAATGCTTGAAGAGTGTAAAGAGAGAGAGAGAGAGAGAGAG 1619

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RESULT 3
US-09-825-294-211
; Sequence 211, Application US/09825294
; Patent No. US20020004491A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Algate, Paul A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; FILE REFERENCE: 210121.484C5
; CURRENT APPLICATION NUMBER: US/09/825, 294
; CURRENT FILING DATE: 2001-04-03
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 211
; LENGTH: 1619
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-825-294-211

```

```

Query Match      84.7%: Score 1606.2; DB 10; Length 1619;
Best Local Similarity 99.8%: Pred. No. 0;
Matches 1616; Conservative 2; Mismatches 0; Indels 1; Gaps 1;

OY 280 GGCACATTTTGGCGGATGTTCTTGTCTCCAGGCTTGTGCGCTCAAAATCCAGTGTACCA 339
    |||||||
DB 1 GGCACATTTTGGCGGATGTTCTTGTCTCCAGGCTTGTGCGCTCAAAATCCAGTGTACCA 60
OY 340 GTGTGAAGAAATTCAGCTGAACAAGACTGCTCTCCCGAGTTCATTGTGAATTGCAC 399
    |||||||
DB 61 GTGTGAAGAAATTCAGCTGAACAAGACTGCTCTCCCGAGTTCATTGTGAATTGCAC 120
OY 400 GTGTGAAGAAATTCAGCTGAACAAGACTGCTCTCCCGAGTTCATTGTGAATTGCAC 459
    |||||||
DB 121 GTGTGAAGAAATTCAGCTGAACAAGACTGCTCTCCCGAGTTCATTGTGAATTGCAC 180
OY 460 CCGCAATCTCTGTGATCATATGAGGGGCTGTCTCATGCGCTCTGCGGGTACAGTCTCT 519
    |||||||

```

Db 181 CCGAAGTCTGTGATGATCAGGCGCCTGTCTATGCTCTGTGCGGGTACAGATCCTT 240  
QY 520 CTGCTCCCGAGGAACTGAACTCAGTTTGCATCAGCTGCTGCAACACCCTCTTTGTA 579  
Db 241 CTGCTCCCGAGGAACTGAACTCAGTTTGCATCAGCTGCTGCAACACCCTCTTTGTA 300  
QY 580 CGGGCAAGGCGCCAAAGAAAGGGGAAAGTTTGCCTCGGCGCTCAGAGGCGCTCCGAC 639  
Db 301 CGGGCAAGGCGCCAAAGAAAGGGGAAAGTTTGCCTCGGCGCTCAGAGGCGCTCCGAC 360  
QY 640 CACCATCTGTTCTCTCAAAATTAAGCCCTTCTCGGACACATGCTGAAGCTGAAGAGATG 699  
Db 361 CACCATCTGTTCTCTCAAAATTAAGCCCTTCTCGGACACATGCTGAAGCTGAAGAGATG 420  
QY 700 CCACCCCTCTGCTGCTTCTCTCCAGCCCTCGCCCAACCCCGCCACTCCCTGAGGA 759  
Db 421 CCACCCCTCTGCTGCTTCTCTCCAGCCCTCGCCCAACCCCGCCACTCCCTGAGGA 480  
QY 760 GTTCTCTGCGGTGCTCTTTATTTCTGAGGAGGAGGAGTCCGTCTCTTTGTT 819  
Db 481 GTTCTCTGCGGTGCTCTTTATTTCTGAGGAGGAGGAGTCCGTCTCTTTGTT 540  
QY 820 CCTGTCAAAATTAAGAAAGAGCTGCTGAAGCATTTCTGAATTAATTCAGCTGACTGAAT 879  
Db 541 CCTGTCAAAATTAAGAAAGAGCTGCTGAAGCATTTCTGAATTAATTCAGCTGACTGAAT 600  
QY 880 TTTCAATGTAATGTAAGAAAGAGGAGGAGTGAAGTCAACCCCAATGCTGTGTATAC 939  
Db 601 TTTCAATGTAATGTAAGAAAGAGGAGGAGTGAAGTCAACCCCAATGCTGTGTATAC 660  
QY 940 CGGAGTCAAGGCGCAGAGCTGCGAGAGTCTGCTTGAAGTCACTAGAGTGGGATCTGCG 999  
Db 661 CGGAGTCAAGGCGCAGAGCTGCGAGAGTCTGCTTGAAGTCACTAGAGTGGGATCTGCG 720  
QY 1000 TTTTGTAAAGCTCCAGTGTCTCATTCATCCCTGATGGGGGATGTTGAACATGACAGA 1059  
Db 721 TTTTGTAAAGCTCCAGTGTCTCATTCATCCCTGATGGGGGATGTTGAACATGACAGA 780  
QY 1060 GTGAGAGTGAAGTCTTCTAGAGGCTGGAAGGCGAGTCCCACTCAAGGCTCCCTGCTG 1119  
Db 781 GTGAGAGTGAAGTCTTCTTAGAGGCTGGAAGGCGAGTCCCACTCAAGGCTCCCTGCTG 840  
QY 1120 ACATTCAAACTTCATGCTCTCTGAAAAACCAATTCCTGACAGCAGAAATTTGGCTTTCGCGC 1179  
Db 841 ACATTCAAACTTCATGCTCTCTGAAAAACCAATTCCTGACAGCAGAAATTTGGCTTTCGCGC 900  
QY 1180 CTGAGTTGGGCTCTAGTGAAGTCACTGAAGTCACTGAGACTTAAGTGGGCTCGGCT 1239  
Db 901 CTGAGTTGGGCTCTAGTGAAGTCACTGAAGTCACTGAGACTTAAGTGGGCTCGGCT 960  
QY 1240 CGCTGTGAAGAAAGTGTGAAGAAATCTTCTCAGTTCTCTTGCAGAGGAGTGGCGCGG 1299  
Db 961 CGCTGTGAAGAAAGTGTGAAGAAATCTTCTCAGTTCTCTTGCAGAGGAGTGGCGCGG 1020  
QY 1300 ACGGAAAGAGCAAGCGGCGCTGACAAAGCGGCGCTGTGCTGAGTGAAGTGAAGTGA 1359  
Db 1021 ACGGAAAGAGCAAGCGGCGCTGACAAAGCGGCGCTGTGCTGAGTGAAGTGAAGTGA 1080  
QY 1360 CGGCGAGGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1418  
Db 1081 CGGCGAGGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140  
QY 1419 ACGAAGACCGCGGAAAGTCTGCGAGAGCACTGTATACAGAGCGGCTGATGACCGAG 1478  
Db 1141 ACGAAGACCGCGGAAAGTCTGCGAGAGCACTGTATACAGAGCGGCTGATGACCGAG 1200  
QY 1479 CTGAGGTAGAAAAGCTCTCCGAGAGAGGAGAGATCATGTACGCCCGGAAGTAGAGC 1538  
Db 1201 CTGAGGTAGAAAAGCTCTCCGAGAGAGGAGAGATCATGTACGCCCGGAAGTAGAGC 1260  
QY 1539 CTGCTGCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1598  
Db 1261 CTGCTGCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1320

QY 1599 CAGCATACGGCCAAATGTACAAACATTCAGCCCTGGGACAGACAGAGAGAGAGAC 1658  
Db 1321 CAGCATACGGCCAAATGTACAAACATTCAGCCCTGGGACAGACAGAGAGAGAGAC 1380  
QY 1659 AGAGAAAAGAAAACACAGCATGAGAACAGTAAATGAATTAATTAATTTAG 1718  
Db 1381 AGAGAAAAGAAAACACAGCATGAGAACAGTAAATGAATTAATTAATTTAG 1440  
QY 1719 CCCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1778  
Db 1441 CCCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500  
QY 1779 CAGCTTCTTTTGCACAAAGAGAGAGATTAATTAATTAATTAATTAATTAATTAATTA 1838  
Db 1501 CAGCTTCTTTTGCACAAAGAGAGAGATTAATTAATTAATTAATTAATTAATTAATTA 1560  
QY 1839 CTGCTTAAAGAAAGACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1897  
Db 1561 CTGCTTAAAGAAAGACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1619

## RESULT 4

US-09-825-294-210  
; Sequence 210, Application US/09825294  
; Patent No. US2002000491A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Stolk, John A.  
; APPLICANT: Algate, Paul A.  
; APPLICANT: Filing, Steven P.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF OVARIAN CANCER  
; FILE REFERENCE: 210121.484C5  
; CURRENT FILING DATE: 2001-04-03  
; NUMBER OF SEQ ID NOS: 215  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 210  
; LENGTH: 625  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(625)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-825-294-210

Query Match 32.9%; Score 624; DB 10; Length 625;  
Best Local Similarity 99.8%; Pred. No. 7.2e-154;  
Matches 624; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1271 AGTTTCTCTTGTGAGAGAGTGGCGCGGAGCGGAGAGCAAGCGGCGCTGACAAAGCG 1330  
Db 1 AGTTTCTCTTGTGAGAGAGTGGCGCGGAGCGGAGAGCAAGCGGCGCTGACAAAGCG 60  
QY 1331 GCGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1390  
Db 61 GCGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120  
QY 1391 CAGGCAAGGCGGACAGACAGCACTGACAGAACACCCCGCAAACTGCTGGAAGACAC 1450  
Db 121 CAGGCAAGGCGGACAGACAGCACTGACAGAACACCCCGCAAACTGCTGGAAGACAC 180  
QY 1451 CGTGTACAGAGAGGCTGTATGACGAGCTGAGTGAAGAAAGCTCCGAGAGAGGAG 1510  
Db 181 CGTGTACAGAGAGGCTGTATGACGAGCTGAGTGAAGAAAGCTCCGAGAGAGGAG 240  
QY 1511 GAGGATCATGTACGCCCGGAAGTAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1570  
Db 241 GAGGATCATGTACGCCCGGAAGTAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300  
QY 1571 CATGATCTCCGAATCTGTTGGGATCCAGCATACGCCCAATGTACAAACATTCAGGCC 1630



QY	1571	CATATCCTCCGAAATCTGGTTGGGCAATCCAGCAATACGGCCAAATGTCAACAACATACGCC	1630
Db	301	CATATCCTCCGAAATCTGGTTGGGCAATCCAGCAATACGGCCAAATGTCAACAACATACGCC	360
QY	1631	TGGGCACACACGACGACGAGGAGGAGACACAGAAAAAGAAAAACACAGCATGGAACACAG	1690
Db	361	TGGGCACACACGACGACGAGGAGGAGGAGACACAGAAAAAGAAAAACACAGCATGGAACACAG	420
QY	1691	TAAATGAATAAAAACATAAAAATTTTAGCCCCCTGTCTGTGCTTACTACGGCCAGAGAAAT	1750
Db	421	TAAATGAATAAAAACATAAAAATTTTAGCCCCCTGTCTGTGCTTACTACGGCCAGAGAAAT	480
QY	1751	GGTACCAATTTTTCAGTGTGGCATTTGACAGCTCTTTTGGCACAAGCAGAAGAGAAATTT	1810
Db	481	GGTACCAATTTTTCAGTGTGGCATTTGACAGCTCTTTTGGCACAAGCAGAAGAGAAATTT	540
QY	1811	AACACTGTTTCAAAACCCGGGGGAGTGGCTGTGTTAAAGAAAGACCATTAAATGCTTTAG	1870
Db	541	AACACTGTTTCAAAACCCGGGGGAGTGGCTGTGTTAAAGAAAGACCATTAAATGCTTTAG	600
QY	1871	ACAGGTAAAAAAGAAAAAAGAAAAA	1895
Db	601	ACAGGTAAAAAAGAAAAAAGAAAAA	625

```

RESULT 6
US-09-825-294-212
; Sequence 212, Application US/09825294
; Patent No. US20020004491A1
;
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Algate, Paul A.
APPLICANT: Fling, Steven P.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; FILE REFERENCE: 210121,484C5
; CURRENT APPLICATION NUMBER: US/09/825,294
; CURRENT FILING DATE: 2001-04-03
;
SOFTWARE: FastSeq For Windows Version 3.0
;
SEQ ID NO 212
LENGTH: 1010
;
TYPE: DNA
;
ORGANISM: Homo sapiens
;
US-09-825-294-212

```

Query Match	29.9%	Score 566.4	DB 10	Length 1010
Best Local Similarity	94.1%	Pred. No. 1,2e-138		
Matches 687	Conservative 0	Mismatches 31	Indels 12	Gaps 9
58	CGCAGCGCGGAGACCCCGAGCGCGGCGCATGTGACGCTCCGCGAGCGGCACCTGCGCCTCT			117
1	CCGCGAGCGGGAGGCCGAGCGCGGCGCATGTGAGGCTCCGCGAGCGGCACCTGCGCCTCT			60
118	CTAACTACGACCGTGCATCTCCGC -GGAGAGAG -GGGGGCCCCACAGACCTGCGAGGC			175
61	CTAAGCTACGACCGTGCATCTCCGCCTGCGACAGCTGCGGGCCCCACAGACCTGCGAGGC			120
176	ACAGCGCTGACGC -GGGSCAGGCTCCGCTGCTGTCGCTCTCTGTAGTGCCTTCCCT			234
121	ACAGCGCTGACGCTGAGGAGCAGCTCCGCTGCTGTCGCTCTCTGTAGTGCCTTCCCT			180
235	CTGCC -GGCCCCGGGACCCGGGAGATGTGGGTCTTAGCAATCGCGCACTTTTTCG			293
181	CTCCCTGGCCCCGGAGACTCCGGAGATGTGGGTCTTAGCAATCGCGCACTTTTTCG			240
294	GATTGTTCTTGCTTC -AGGCTTTGCGCTGCAATCAGTGCACAGTGTGAAGATTC			352
241	GATTGTTCTTGCTTCCAAAGCTTTGGCGTCAATACAGTGCACAGTGTGAAGATTC			300
353	CAGCGAACAAGACGTCTCTCCCGCAATTATTGTGAATTGCACGGTGAAGCTTCA			412

Db 301 CAGCTGAACAAGACTGCTCTCCGCCGAGTTTCATTGTGAATTGCACGGGTGAACGTTCAA 360  
 413 GACATGTGTCAAGAAAGATGATGAGCAAAAGGCGGGATCATGTACCCGAAGTCTGT 472  
 Db 361 GACATGTGTCAAGAAAGATGATGAGCAAAAGTCCGGGATCATGTACCCGAAGTCTGT 420  
 473 GCATCATCAGCGGCTGTCTCATCGCTTCGCCGGGTACCAAGTCTTCTGTCCCAAGG 532  
 Db 421 GCATCATCAGCGGCTGTCTCATCGCTTCGCCGGGTACCAAGTCTTCTGTCCCAAGG 480  
 533 AAACGTGAATCAGTTTTCATCAGCTGTGTGAACACCCCTCTTTTGA--CGGGCCAAGGCC 591  
 Db 481 AAACGTGAATCAGTTTTCATCAGCTGTGTGAACACCCCTCTTTTGA--CGGGCCAAGGCC 540  
 592 CAGAAAAGGGGAGATCTGCTGCTGGCCCTCAGGCGCAGGCTCCGACCAACATCTCTGT 651  
 Db 541 CAGAAAAGGGGAGATCTGCTGCTGGCCCTCAGGCGCAGGCTCCGACCAACATCTCTGT 600  
 652 CCTCAAAATTA--GCCCTCTCTCTCGGACACACTGTGA--GCTGAAGAGATGCCACCCC 706  
 Db 601 CCTCAAAATTAAGCCCTTCTCTCGGACACACTGTGAAGAGATGCCACCCC 660  
 707 CTCTGCTATGTCTTCTTCACGCGCTCGCCCAACCCCACTCCCTGAGTGAATTTCTT 766  
 Db 661 CTCTGCTATGTCTTCTTCACGCGCTCGCCCAACCCCA--CTCCTGAGAGAGACAGCC 719  
 767 CTGGGTGTC 776  
 Db 720 CAGGAGACCC 729

## RESULT 7

US-09-825-294-208/C  
 : Sequence 208, Application US/09825294  
 : Patent No. US20020004491A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Xu, Jiangchun  
 : APPLICANT: Stolk, John A.  
 : APPLICANT: Algate, Paul A.  
 : APPLICANT: Filing, Steven P.  
 : TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
 : TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF OVARIAN CANCER  
 : FILE REFERENCE: 210121.484C5  
 : CURRENT APPLICATION NUMBER: US/09/825.294  
 : CURRENT FILING DATE: 2001-04-03  
 : NUMBER OF SEQ ID NOS: 215  
 : SOFTWARE: FastSeq for Windows Version 3.0  
 : SEQ ID NO 208  
 : LENGTH: 1362  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : US-09-825-294-208

Query Match 26.8%; Score 508.6; DB 10; Length 1362;  
 Best Local Similarity 99.2%; Pred. No. 1.9e-123;  
 Matches 511; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1124 TCAAACTTCATGCTCTGAAACCAATTCCTGACAGAAATTCGCTGTTGCGGCTGA 1183  
 Db 1362 TCAAACTTCATGCTCTGAAACCAATTCCTGACAGAAATTCGCTGTTGCGGCTGA 1303  
 1184 GTTGGGCTCTAGACTCAGACTCAATGACTGAGCTTGAAGTGGGCTCGGCTCGCT 1243  
 Db 1302 GTTGGGCTCTAGACTCAGACTCAATGACTGAGCTTGAAGTGGGCTCGGCTCGCT 1243  
 1244 CTGAAAGTCTTAAAGAAATCTTCTCAGTCTCTTTCAGAGAGACTGGCGGGAGAGC 1303  
 Db 1242 CTGAAAGTCTTAAAGAAATCTTCTCAGTCTCTTTCAGAGAGACTGGCGGGAGAGC 1183  
 1304 GAAGAGCAACGGGCTGCAAAAGGGGGGCTGTGGGTGAGAGGCGCATGTACGCG 1363  
 Db 1182 GAAGAGCAACGGGCTGCAAAAGGGGGGCTGTGGGTGAGAGGCGCATGTACGCG 1123

QY 1364 CAGCGCTTCTCGTGGTGTGCGTCTGACGAGCAGGCGGCGAGACAGCACTTCACGAA 1423  
 Db 1122 CAGCGCTTCTCGTGGTGTGCGTCTGACGAGCAGGCGGCGAGACAGCACTTCACGAA 1063  
 1424 CAGCGCGGAAATCTGTCGAGAGACACCGTGTACAGAGCGGGTGTATGACCGAGTGA 1483  
 Db 1062 CAGCGCGGAAATCTGTCGAGAGACACCGTGTACAGAGCGGGTGTATGACCGAGTGA 1003  
 1484 GTGAAAGAGTCTCCGAGAGAGGAGAGATATGATAGCGCCGGAATGAGACTCTGT 1543  
 Db 1002 GTGAAAGAGTCTCCGAGAGAGGAGAGATATGATAGCGCCGGAATGAGACTCTGT 943  
 1544 CCACTGCTGTGGTGTGCGCGCAGCAGATGATCTCGAATCTGTGTGGCATTCAGCA 1603  
 Db 942 CCACTGCTGTGGTGTGCGCGCAGCAGATGATCTCGAATCTGTGTGGCATTCAGCA 883  
 1604 TACGGCCAATGTCAACAAATCAGCCCTCGGCA 1638  
 Db 882 TACGGCCAATGTCAACAAATCAGCCCTCAGGA 848

## RESULT 8

US-09-825-294-213  
 : Sequence 213, Application US/09825294  
 : Patent No. US20020004491A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Xu, Jiangchun  
 : APPLICANT: Stolk, John A.  
 : APPLICANT: Algate, Paul A.  
 : APPLICANT: Filing, Steven P.  
 : TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
 : TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF OVARIAN CANCER  
 : FILE REFERENCE: 210121.484C5  
 : CURRENT APPLICATION NUMBER: US/09/825.294  
 : CURRENT FILING DATE: 2001-04-03  
 : NUMBER OF SEQ ID NOS: 215  
 : SOFTWARE: FastSeq for Windows Version 3.0  
 : SEQ ID NO 213  
 : LENGTH: 480  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : US-09-825-294-213

Query Match 25.1%; Score 476.8; DB 10; Length 480;  
 Best Local Similarity 99.6%; Pred. No. 2.2e-115;  
 Matches 478; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCCAATCTCGGAGGCTCTGCTGCTGCGCCGAGGCGGAGCGGAGAGAGAGACCCG 60  
 Db 1 GCCAATCTCGGAGGCTCTGCTGCTGCGCCGAGGCGGAGCGGAGAGAGAGACCCG 60  
 61 CAGCGGAGAGCCGAGAGCGGCGGAGATGACAGGCTCCGAGAGCGGACCTGCGGCTCTCTA 120  
 Db 61 CAGCGGAGAGCCGAGAGCGGCGGAGATGACAGGCTCCGAGAGCGGACCTGCGGCTCTCTA 120  
 121 AGCTAGACCGTGTCTTCCGCGGAGAGAGCGGCGGCGGCGGAGAGAGAGAGAGAG 180  
 Db 121 AGCTAGACCGTGTCTTCCGCGGAGAGAGCGGCGGCGGCGGAGAGAGAGAGAGAG 180  
 122 AGCTAGACCGTGTCTTCCGCGGAGAGAGCGGCGGCGGCGGAGAGAGAGAGAGAG 240  
 Db 122 AGCTAGACCGTGTCTTCCGCGGAGAGAGCGGCGGCGGCGGAGAGAGAGAGAGAG 240  
 181 CGCTGAGCGGAG 240  
 Db 181 CGCTGAGCGGAG 240  
 241 GCCCGGAG 300  
 Db 241 GCCCGGAG 300  
 301 CTGCTTTCAGAGCTTTCGCTGCAATTCAGTCTACCAATGAGAGATTCAGAGTGA 360  
 Db 301 CTGCTTTCAGAGCTTTCGCTGCAATTCAGTCTACCAATGAGAGATTCAGAGTGA 360  
 361 CAGGAGTCTCTCCCGAGTTCATTTGAATTCAGAGAGAGAGAGAGAGAGAGAGAGAG 420





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Db 181 CCGCACTCTGTCATCANTCAGCGGCTGTCTCATGCGCTTCGCGGATACAGTCTT 240
QY 520 CTGCTCCCAAGGAACTGAACTGATTTGATGAGTGTGCAACACCCCTCTTTGTA 579
Db 241 CTGCTCCCAAGGAACTGAACTGATTTGATGAGTGTGCAACACCCCTCTTTGTA 300
QY 580 CGGCGCAAGGCGCAAGAAAGGGGAGATTTGCTTCGCGCTTCAGCGGAGGCTCCGAC 639
Db 301 CGGCGCAAGGCGCAAGAAAGGGGAGATTTGCTTCGCGCTTCAGCGGAGGCTCCGAC 360
QY 640 CACCATCT 648
Db 361 CACCATCT 369

RESULT 14
US-09-867-701-1516/C
; Sequence 1516 Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Agilate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1516
; LENGTH: 373
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-1516

Query Match 19.1%; Score 362; DB 10; Length 373;
Best Local Similarity 99.7%; Pred. No. 2.2e-85;
Matches 373; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1504 AGGGAGAGAGATCATGTACGCGCGGAAGTAGAGCTGTCAGTGTGCTGGTGGTGG 1563
Db 373 AGGGAGAGAGATCATGTACGCGCGGAAGTAGAGCTGTCAGTGTGCTGGTGGTGG 315
QY 1564 CCGCAGCCATGATCTCCGAATCTGTTGGCATCCAGCATAGCGGCAATGTCAACAA 1623
Db 314 CCGCAGCCATGATCTCCGAATCTGTTGGCATCCAGCATAGCGGCAATGTCAACAA 255
QY 1624 TCAGCCCTGGGCGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1683
Db 254 TCAGCCCTGGGCGAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 195
QY 1684 AACACAGTAATGAATAAACATATAATTTAGCCCTCTGTCGTCATAGCGGC 1743
Db 194 AACACAGTAATGAATAAACATATAATTTAGCCCTCTGTCGTCATAGCGGC 135
QY 1744 AGGAATGTGATACCAATTTTCACTGTTGACCTTCTTTTGGCCCAAGAGAG 1803
Db 134 AGGAATGTGATACCAATTTTCACTGTTGACCTTCTTTTGGCCCAAGAGAG 75
QY 1804 AGAATTTAATACATGTTTCAAAACCCGGGGAGTGGCTGTCTTAAAGAAAGCATTAAT 1863
Db 74 AGAATTTAATACATGTTTCAAAACCCGGGGAGTGGCTGTCTTAAAGAAAGCATTAAT 15
QY 1864 GCTTTAGACAGTGT 1877
Db 14 GCTTTAGACAGTGT 1
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RESULT 15
US-09-867-701-1532
; Sequence 1532 Application US/09867701
; Patent No. US20020132237A1
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```
; GENERAL INFORMATION:
; APPLICANT: Agilate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1532
; LENGTH: 390
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(390)
; OTHER INFORMATION: n = A,T,C or G
US-09-867-701-1532

Query Match 18.7%; Score 354; DB 10; Length 390;
Best Local Similarity 98.7%; Pred. No. 2.8e-83;
Matches 387; Conservative 0; Mismatches 2; Indels 3; Gaps 3;

QY 1488 AAAAAGCTCTCCGAGAGGAGAGAGATCATGTACGCGCGGAAGTAGAGCTGTCCAG 1547
Db 1 AAAAAGCTCTCCGAGAGGAGAGAGATCATGTACGCGCGGAAGTAGAGCTGTCCAG 60
QY 1548 TCGTGTGGTGGTGGCGCGAGCCATGATCTCCGAATCTGTTGGCATCCAGATPAG 1607
Db 61 TCGTGTGGTGGTGGCGCGAG -CATGATCTCCGAATCTGTTGGCATCCAGATPAG 119
QY 1608 GCCATGTACACAAATACGCTTGGCGACACAGAGAGAGAGAGAGAGAGAGAGAG 1667
Db 120 GCCATGTACACAAATACGCTTGGCGACACAGAGAGAGAGAGAGAGAGAGAGAG 178
QY 1668 AAAAAGCAGCATGAGAACACAGTAATGAATTAACCATTAATTTTACCCCTCTGT 1727
Db 179 AAAAAGCAGCATGAGAACACAGTAATGAATTAACCATTAATTTTACCCCTCTGT 238
QY 1728 TCTGTGCTTACTGGCCAGGAATGTACCAATTTTCAAGTTGGACTTGACAGCTTC -T 1786
Db 239 TCTGTGCTTACTGGCCAGGAATGTACCAATTTTCAAGTTGGACTTGACAGCTTC 298
QY 1787 TTTGCCCAAGCAAGAGAGATTTTAACTGTTTCAAAACCCGGGGAGTGGCTGTGTTA 1846
Db 299 TTTGCCCAAGCAAGAGATTTTAACTGTTTCAAAACCCGGGGAGTGGCTGTGTTA 358
QY 1847 AAGAAAGACCATTAATGCTTTAGACAGTGA 1878
Db 359 AAGAAAGACCATTAATGCTTTAGACAGTGA 390
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Search completed: November 7, 2002, 18:00:26  
Job time : 93.4417 secs

25

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: November 7, 2002, 09:55:08 ; Search time 4250.79 Seconds  
(without alignments)  
11220.326 Million cell updates/sec

Title: US-09-970-966-214

Perfect score: 1897  
1 gccaaactcggagcgtctg.....aaaaaaaaaaaaaaaaaaaaa 1897

Sequence: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 24791104 seqs, 12571243825 residues

Total number of hits satisfying chosen parameters: 49582208

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Pending Patents\_NA\_Main.\*  
1: /cgn2\_6/ptodata/1/pna/PCTUS.COMB.seq.\*  
2: /cgn2\_6/ptodata/1/pna/US06.COMB.seq.\*  
3: /cgn2\_6/ptodata/1/pna/US07.COMB.seq.\*  
4: /cgn2\_6/ptodata/1/pna/US08.COMB.seq.\*  
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Result No.	Score	Query Match	Length	DB ID	Description
1	1896.2	100.0	1897	1 PCT-US01-45395-214	Sequence 214, App
2	1896.2	100.0	1897	1 US-09-825-294-214	Sequence 214, App
3	1896.2	100.0	1897	3 US-09-970-966-214	Sequence 214, App
4	1896.2	100.0	1897	4 US-10-212-677-214	Sequence 214, App
5	1873	98.5	1967	1 PCT-US02-29964-16	Sequence 16, App1
6	1869.4	98.5	1918	17 US-09-397-022-4454	Sequence 4454, App
7	1869.4	98.5	1918	31 US-09-808-385-4454	Sequence 4454, App
8	1863.2	98.2	1925	25 US-09-652-121-7293	Sequence 7293, App
9	1863.2	98.2	1925	25 US-09-652-128-9375	Sequence 9375, App
10	1863.2	98.2	1925	27 US-09-652-917-3346	Sequence 3346, App
11	1863.2	98.2	1925	28 US-09-699-997-11085	Sequence 11085, A
12	1863.2	98.2	1925	28 US-09-710-281-4458	Sequence 4458, App
13	1863.2	98.2	1925	28 US-09-726-805-1608	Sequence 1608, App
14	1851	97.6	1917	17 US-09-371-168-7188	Sequence 7188, App
15	1851	97.6	1917	25 US-09-644-873-9077	Sequence 9077, App
16	1851	97.6	1917	25 US-09-652-109-9370	Sequence 9370, App
17	1851	97.6	1917	25 US-09-652-121-6191	Sequence 6191, App
18	1851	97.6	1917	25 US-09-652-128-7518	Sequence 7518, App
19	1851	97.6	1917	25 US-09-652-335-9112	Sequence 9112, App
20	1851	97.6	1917	25 US-09-652-914-8473	Sequence 8473, App
21	1851	97.6	1917	25 US-09-652-917-2477	Sequence 2477, App

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES







D	1141	GAAMACATTTCTGTGACAGAGAAATTTGGCTGTGTTTGGCGCTGTGATTTGGGGCTCTATGACT	1200
Q	1201	CGAGACTCAATGACTGGGACTTTAGACTGGGGCTCGGCTCTGCTCTTGAAAAAGTCTTAA	1260
D	1201	CGAAGACTCAATGACTGGGACTTTAGACTGGGGGCTCGGCTCTGCTCTTGAAAAAGTCTTAA	1260
Q	1261	AAATCTTCTAGATTCTCTTTCGACAGAGACTTGGGGCGGGAGCCGAAAGACCAAGGGGCGCT	1320
D	1261	AAATCTTCTAGATTCTCTCTTTCGAGAGAGACTTGGGGCGGGAGCCGAAAGACCAAGGGGCGCT	1320
Q	1321	GCACAAAGCGGGCGCTGTGCTGTGTGGAGTGGCGATGTACGCGCAGGGGCTTCTGTGTGT	1380
D	1321	GCACAAAGCGGGCGCTGTGCTGTGTGGAGTGGCGATGTACGCGCAGGGGCTTCTGTGTGT	1380
Q	1381	TGGGGTCTGTGAGGAGACGGCGGCACACAGCACTGTGACGAAACCCGCGCAAACTCT	1440
D	1381	TGGGGTCTGTGAGGAGACGGCGGCACACAGCACTGTGACGAAACCCGCGCAAACTCT	1440
Q	1441	GCAGAGACACCGTGTACAGGAGCGGGGTGTATGACCGAGCTGAGGTAGAAAAAGTCTCG	1500
D	1441	GCAGAGACACCGTGTACAGGAGCGGGGTGTATGACCGAGCTGAGGTAGAAAAAGTCTCG	1500
Q	1501	AGAGGGGAGAGAGATCATGTACGCCCGGAATGAGAGACTCGTCCAGTGTGCTGGGTT	1560
D	1501	AGAGGGGAGAGAGATCATGTACGCCCGGAATGAGAGACTCGTCCAGTGTGCTGGGTT	1560
Q	1561	TGGCCGAGGCATGATCTCTCGAATCTGTGTTGGGCAATTCAGCATACGGCCATGTGCACAA	1620
D	1561	TGGCCGAGGCATGATCTCTCGAATCTGTGTTGGGCAATTCAGCATACGGCCATGTGCACAA	1620
Q	1621	CAATCAGCCCTGGGCGACACACGACGAGGAGGAGAGACAGACAAAAAACACAGAT	1680
D	1621	CAATCAGCCCTGGGCGACACACGACGAGGAGGAGAGACAGACAAAAAACACAGAT	1680
Q	1681	GAGAACACAGTAAATGTAATTAATTAATTTTAAAGCCCTCTGTTCTGTGCTTACTG	1740
D	1681	GAGAACACAGTAAATGTAATTAATTAATTTTAAAGCCCTCTGTTCTGTGCTTACTG	1740
Q	1741	GCACGAGAAATGTGTCAAATTTTCAGTGTGAGCTGACAGGTCTTTTGCCACAAAGAA	1800
D	1741	GCACGAGAAATGTGTCAAATTTTCAGTGTGAGCTGACAGGTCTTTTGCCACAAAGAA	1800
Q	1801	GAGAGAAATTTAACACTGTTCCTTCAAAACCCGGGGAGTGTGCTGTGTTAAAGAAAGACATTA	1860
D	1801	GAGAGAAATTTAACACTGTTCCTTCAAAACCCGGGGAGTGTGCTGTGTTAAAGAAAGACATTA	1860
Q	1861	AATGCTTTAGCAGCTGTAAAAAAGAAAAAAGAAAAA 1897	
D	1861	AATGCTTTAGCAGCTGTAAAAAAGAAAAAAGAAAAA 1897	

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RESULT 3
US-09-970-966-214
; Sequence 214, Application US/09970966
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Molesch, David Alan
; APPLICANT: Fling, Steven P.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.484C6
; CURRENT APPLICATION NUMBER: US/09/970,966
; CURRENT FILING DATE: 2001-10-02
; NUMBER OF SEQ. ID NOS: 215
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 214
; LENGTH: 1897
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-970-966-214

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Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1897; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	1	GCACAACTCCGAGAGCTGTGGTCTCTCGGCCCGGAGACGAGCGGAGGAGGACGAGACCG	60
OY	61	CAGCCGGAGACCCGAGAGGCGGGGCGATGACAGGCTCCGCGAGCGGCACCTGGGCTCTCTTA	120
Db	61	CAGCCGGAGACCCGAGAGGCGGGGCGATGACAGGCTCCGCGAGCGGCACCTGGGCTCTCTTA	120
OY	121	AGCTACGACCGTGTCTCTCCCGGGGACACAGCGGGGGCCACAGAGCTGTGGAGGCACAGC	180
Db	121	AGCTACGACCGTGTCTCTCCCGGGGACACAGCGGGGGCCACAGAGCTGTGGAGGCACAGC	180
OY	181	CGCTGCAGCGGGGACAGCCCTCCGCTCTCTCCGCTCTCTGATGGCTTGGCTTCCTCCG	240
Db	181	CGCTGCAGCGGGGAGCCGCTCTCCGCTCTCTCTGATGGCTTGGCTTCCTCCG	240
OY	241	GCCCCGGAGACTCCGGGAGAAATGTGGTCTTAGGCATCCGGGCACATTTTTCGGATTTGT	300
Db	241	GCCCCGGAGACTCCGGGAGAAATGTGGTCTTAGGCATCCGGGCACATTTTTCGGATTTGT	300
OY	301	CTTCTCTTCACAGGCTTTCGCGTGCAGAAATCCAGTGTACACAGTGTGAAGAAATTCACAGTGA	360
Db	301	CTTCTCTTCACAGGCTTTCGCGTGCAGAAATCCAGTGTACACAGTGTGAAGAAATTCACAGTGA	360
OY	361	CAACGACTGCTCTCTCCCGGAGTTCAATTGTAATTGCAACGCTGAACGTTCAAGACATGTG	420
Db	361	CAACGACTGCTCTCTCCCGGAGTTCAATTGTAATTGCAACGCTGAACGTTCAAGACATGTG	420
OY	421	TCGAAAGAAGTGTGAGGAGCAAGTCCGGGATCATGTACCCAGTAGTCTCTGATCATC	480
Db	421	TCGAAAGAAGTGTGAGGAGCAAGTCCGGGATCATGTACCCAGTAGTCTCTGATCATC	480
OY	481	AGCGGCTGTCTCATGCGCTCTCTCGGGGTACCAAGTCTTCTGCTCCCGAGGAAACTGTAA	540
Db	481	AGCGGCTGTCTCATGCGCTCTCTCGGGGTACCAAGTCTTCTGCTCCCGAGGAAACTGTAA	540
OY	541	CTCAGTTGGCATCGCTGCTGCAACACCCCTCTTGTATAGGGGCAAGGCCCAAGAAAG	600
Db	541	CTCAGTTGGCATCGCTGCTGCAACACCCCTCTTGTATAGGGGCAAGGCCCAAGAAAG	600
OY	601	GCGAAGTTCTGCTCGGCGCTCAAGGCCAGGGCTCCGACACCAATCTGTTCTCAATT	660
Db	601	GCGAAGTTCTGCTCGGCGCTCAAGGCCAGGGCTCCGACACCAATCTGTTCTCAATT	660
OY	661	AGCCCTCTTCGCGACACTGCTGAGAGCTGAAGAGATGCCACCCCTCTGATTTTC	720
Db	661	AGCCCTCTTCGCGACACTGCTGAGAGCTGAAGAGATGCCACCCCTCTGATTTTC	720
OY	721	TTTCAGCCCTCGGCCCAACCCCCCACTCCCTGAGTAGTTCTTCTGGGTCTCTTTT	780
Db	721	TTTCAGCCCTCGGCCCAACCCCCCACTCCCTGAGTAGTTCTTCTGGGTCTCTTTT	780
OY	781	ATTCTGGGTAGGAGGCGGGAGTCCGATCTCTTTGTTCCTGTCGAATAATGAAGAG	840
Db	781	ATTCTGGGTAGGAGGCGGGAGTCCGATCTCTTTGTTCCTGTCGAATAATGAAGAG	840
OY	841	CTCGGTAAAGCATTTCTGAATAAATTTACGCTGACTGAATTTTCAATATGTACTTGAAGA	900
Db	841	CTCGGTAAAGCATTTCTGAATAAATTTACGCTGACTGAATTTTCAATATGTACTTGAAGA	900
OY	901	AGGAGGTGTGAAGTAAAGTTACCCCATATGTCTGTATACCCGAGTCAAGGCCAGGCTGGC	960
Db	901	AGGAGGTGTGAAGTAAAGTTACCCCATATGTCTGTATACCCGAGTCAAGGCCAGGCTGGC	960
OY	961	AGAGTCMTCTCTTGAAGTCACTGAGGTGGGCACTGCGCTTTTGTAAAGCCTTCAGTGTCTC	1020
Db	961	AGAGTCMTCTCTTGAAGTCACTGAGGTGGGCACTGCGCTTTTGTAAAGCCTTCAGTGTCTC	1020
OY	1021	CATTCCATCCCTGATGGGGCATAGTTTGAGCTGACAGTGAAGTGAAGCTTTTCTTAG	1080
Db	1021	CATTCCATCCCTGATGGGGCATAGTTTGAGCTGACAGTGAAGTGAAGCTTTTCTTAG	1080

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Db 1021 CATTCCATCCCTGATGGGGCATAGTTTGACACTGACAGATGAGATGACGTTTCTTAG 1080
Qy 1081 GCGTGAAGGGCCAGTCTCCCATCAAGGCTCCCTCGCTTGACATTCATAATTCATGCTCT 1140
Db 1081 GCGTGAAGGGCCAGTCTCCCATCAAGGCTCCCTCGCTTGACATTCATAATTCATGCTCT 1140
Qy 1141 GAAAACCATTTCTGACAGACAGAAATTTGGCTGTTTCGGCCCTGAGTTGGGCTCTAGTACT 1200
Db 1141 GAAAACCATTTCTGACAGACAGAAATTTGGCTGTTTCGGCCCTGAGTTGGGCTCTAGTACT 1200
Qy 1201 CGAGACTCAATGACTGGGACTTAGACTGGGCTGGGCTGGCTGGCTGAAAGCTTAAGA 1260
Db 1201 CGAGACTCAATGACTGGGACTTAGACTGGGCTGGGCTGGCTGGCTGAAAGCTTAAGA 1260
Qy 1261 AATCTTCTCAGTTCTCTCTTCAAGAGACTGCGCGCGGAGCGAGCAAGCAAGCGGCGCT 1320
Db 1261 AATCTTCTCAGTTCTCTCTTCAAGAGACTGCGCGCGGAGCGAGCAAGCAAGCGGCGCT 1320
Qy 1321 GCACAAAGCGGGCGCTGTCGGTGGTGGAGTGGCATGTACGCGGACGCGCTTCTGCTGT 1380
Db 1321 GCACAAAGCGGGCGCTGTCGGTGGTGGAGTGGCATGTACGCGGACGCGCTTCTGCTGT 1380
Qy 1381 TGGCGTCTCAGCAGCAGAGCGGCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 1440
Db 1381 TGGCGTCTCAGCAGCAGAGCGGCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 1440
Qy 1441 GCGAGACACCGTGTACAGAGAGCGGGTTGATGACCGAGCTGAGTAGAAGAAAGTCTCCG 1500
Db 1441 GCGAGACACCGTGTACAGAGAGCGGGTTGATGACCGAGCTGAGTAGAAGAAAGTCTCCG 1500
Qy 1501 AGAAGGGAGAGAGATATATATATATATATATATATATATATATATATATATATATAT 1560
Db 1501 AGAAGGGAGAGAGATATATATATATATATATATATATATATATATATATATATATAT 1560
Qy 1561 TGGCGCGAGCAGTATCTCCGATCTGTTGGGATCCAGATTCAGGCAATGTCACAA 1620
Db 1561 TGGCGCGAGCAGTATCTCCGATCTGTTGGGATCCAGATTCAGGCAATGTCACAA 1620
Qy 1621 CAATCAGCCCTGGGAGACAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1680
Db 1621 CAATCAGCCCTGGGAGACAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1680
Qy 1681 GAGACAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1740
Db 1681 GAGACAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1740
Qy 1741 GCCAGGAATGTACCAATTTTTCAGTGTGAGCTTGACACTTCTTTTGGCACAAGCA 1800
Db 1741 GCCAGGAATGTACCAATTTTTCAGTGTGAGCTTGACACTTCTTTTGGCACAAGCA 1800
Qy 1801 GAGAGATTTAACTGTTTCAAAACCGGGGAGTGGCTGTGTTAAAGAAAGACATTA 1860
Db 1801 GAGAGATTTAACTGTTTCAAAACCGGGGAGTGGCTGTGTTAAAGAAAGACATTA 1860
Qy 1861 AATGCTTTAGACAGTGTAAAAAAGAAAAAAGAAAAA 1897
Db 1861 AATGCTTTAGACAGTGTAAAAAAGAAAAAAGAAAAA 1897

```

# RESULT 4

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; Sequence 214, Application US/10212677
; GENERAL INFORMATION:
; APPLICANT: Chenault, Ruth A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Fanger, Gary R.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.484C7
; CURRENT APPLICATION NUMBER: US/10/212.677
; CURRENT FILING DATE: 2002-08-02

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; NUMBER OF SEQ ID NOS: 288
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 214
; LENGTH: 1897
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-212-677-214

Query Match      100.0%; Score 1896.2; DB 42; Length 1897;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1897; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCAATCTCCGAGGCTGTGCTGCTGCGCCGAGGAGCGGAGGAGAGAGAGAGAGAGAGAGAG 60
Db 1 GCCAATCTCCGAGGCTGTGCTGCTGCGCCGAGGAGCGGAGGAGAGAGAGAGAGAGAGAGAG 60
Qy 61 CAGCCGGGAGCCCGAGGCGGCGGCGATGAGGCTCCGCGAGCGGAGCGGAGAGAGAGAGAGAG 120
Db 61 CAGCCGGGAGCCCGAGGCGGCGGCGATGAGGCTCCGCGAGCGGAGCGGAGAGAGAGAGAGAG 120
Qy 121 AGCTACGACCGCTGCTCCGCGGAGCAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
Db 121 AGCTACGACCGCTGCTCCGCGGAGCAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 180
Qy 181 CGCTGACGCGCGGAGCAGCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db 181 CGCTGACGCGCGGAGCAGCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Qy 241 GCGCCGGGAGCTCCGCGGAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Db 241 GCGCCGGGAGCTCCGCGGAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
Qy 301 CTGCTCTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
Db 301 CTGCTCTCCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
Qy 361 CAACGACTGCTCTCCCGCAGTTCAATTTGAAATGACAGGCTGGAACGTTCAAGACATGTG 420
Db 361 CAACGACTGCTCTCCCGCAGTTCAATTTGAAATGACAGGCTGGAACGTTCAAGACATGTG 420
Qy 421 TCAGAAAGAGTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Db 421 TCAGAAAGAGTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Qy 481 AGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
Db 481 AGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
Qy 541 CTCAGTTTGCATGAGCTGTGCAACACCCCTCTTTTGAACGCGGCAAGGCCCAAGAAAG 600
Db 541 CTCAGTTTGCATGAGCTGTGCAACACCCCTCTTTTGAACGCGGCAAGGCCCAAGAAAG 600
Qy 601 GGGAAATTCGCTCGGCGGCTTCAAGGCGGAGGCTCCGAGCAGCAGCAGCAGCAGCAGCAG 660
Db 601 GGGAAATTCGCTCGGCGGCTTCAAGGCGGAGGCTCCGAGCAGCAGCAGCAGCAGCAGCAG 660
Qy 661 AGCCCTCTTCTCGGCACTGCTGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Db 661 AGCCCTCTTCTCGGCACTGCTGAAGCTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Qy 721 TTCAGACCCCTGCGCCCAACCCCGACCTCCCTGAGTGTCTTCTGCTGCTGCTGCTGCT 780
Db 721 TTCAGACCCCTGCGCCCAACCCCGACCTCCCTGAGTGTCTTCTGCTGCTGCTGCTGCT 780
Qy 781 ATTCTGGGTAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
Db 781 ATTCTGGGTAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
Qy 841 CTCGGTAAAGCATTTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 900
Db 841 CTCGGTAAAGCATTTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 900
Qy 901 AGGAGGTGAGTGAAGATTCACCCCATGTCTGTATACCGGAGTCAAGCGGAGGCTGGC 960

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Db 319 GCCCGGAGCTCCGGAGAAATGTGGGCTCTAGGCAATCGCGCAACTTTTTCGGATTTGT 378  
QY 301 CTTCCTCAGGCTTTGGGCTGCAAAATCCAGTGTCTACAGTGTGAAGAAATTCAGCGTGA 360  
Db 379 CTTCCTCAGGCTTTGGGCTGCAAAATCCAGTGTCTACAGTGTGAAGAAATTCAGCGTGA 438  
QY 361 CAGAGCTGTCTCTCCCGAGTTCATTTGTAATTCAGCGTGAAGAAATTCAGCGTGA 420  
Db 439 CAGAGCTGTCTCTCCCGAGTTCATTTGTAATTCAGCGTGAAGAAATTCAGCGTGA 498  
QY 421 TCAGAAAGAGTGTAGAGCAAAAGTCCGGGATCATGTACCCCACTCTCTGTATCATC 480  
Db 499 TCAGAAAGAGTGTAGAGCAAAAGTCCGGGATCATGTACCCCACTCTCTGTATCATC 558  
QY 481 AGCGGCTGTCTCATGCGCTCTGCGGGATCACAGTCTCTCTCTCCAGGAAACTGAA 540  
Db 559 AGCGGCTGTCTCATGCGCTCTGCGGGATCACAGTCTCTCTCTCCAGGAAACTGAA 618  
QY 541 CTCAGTTTGCATTCAGTCTCTGCAACACCCCTTTTGAAGGAGCCCAAGGCAAGAA 600  
Db 619 CTCAGTTTGCATTCAGTCTCTGCAACACCCCTTTTGAAGGAGCCCAAGGCAAGAA 678  
QY 601 GGAAGTCTCTGCTCTGCGGCTCTGAGGCTCCGACACACATCTCTCTCTCAAAAT 660  
Db 679 GGAAGTCTCTGCTCTGCGGCTCTGAGGCTCCGACACACATCTCTCTCTCAAAAT 738  
QY 661 AGCCCTCTCTCTGCGCACACTGCTGAAGTGAAGAGATGCCACCCCTCTCATTTGTC 720  
Db 739 AGCCCTCTCTCTGCGCACACTGCTGAAGTGAAGAGATGCCACCCCTCTCATTTGTC 798  
QY 721 TTCCAGGCTCTGCGGCAACCCCTCTCTGAGTGTATTTCTCTGCTCTCTCTCTCT 780  
Db 799 TTCCAGGCTCTGCGGCAACCCCTCTCTGAGTGTATTTCTCTGCTCTCTCTCTCT 858  
QY 781 ATTCTGGGTAGGAGCGGAGTCCGTTCTCTTTGTTCTCTGCTGCAAAATTAAGAAAG 840  
Db 859 ATTCTGGGTAGGAGCGGAGTCCGTTCTCTTTGTTCTCTGCTGCAAAATTAAGAAAG 918  
QY 841 CTGCGTAAAGCATTTCTGAATTAATTCAGCTGAATTTTCAATGATCTTGAAGA 900  
Db 919 CTGCGTAAAGCATTTCTGAATTAATTCAGCTGAATTTTCAATGATCTTGAAGA 978  
QY 901 AGGAGTGTAGTGAAGTTCACCCCATGTCTGTACCCGAGTCAAGGCAAGCTGTGC 960  
Db 979 AGGAGTGTAGTGAAGTTCACCCCATGTCTGTGTACCCGAGTCAAGGCAAGCTGTGC 1038  
QY 961 AGAGTGTCTCTTGAAGTCACTGAGTGGCATCTGCTTTTGAAGGCTCTCAAGTGC 1020  
Db 1039 AGAGTGTCTCTTGAAGTCACTGAGTGGCATCTGCTTTTGAAGGCTCTCAAGTGC 1098  
QY 1021 CATTCATCTCTGATGGGGGATAGTTGAGACAGTGAAGTGAAGTGAAGTCTTCTTAA 1080  
Db 1099 CATTCATCTCTGATGGGGGATAGTTGAGACAGTGAAGTGAAGTGAAGTCTTCTTAA 1158  
QY 1081 GGCTGAGGAGCCAGTTCCTCAAGCTCCCTGCTTGAATTAATTCATCTCTCT 1140  
Db 1159 GGCTGAGGAGCCAGTTCCTCAAGCTCCCTGCTTGAATTAATTCATCTCTCTCT 1218  
QY 1141 GAAACCATTTCTGCGACGCAAAATTTGGCTGCTGCGCTGAGTGTGGGCTCTAGTACT 1200  
Db 1219 GAAACCATTTCTGCGACGCAAAATTTGGCTGCTGCGCTGAGTGTGGGCTCTAGTACT 1278  
QY 1201 CGAGACTCATGACTGGAGCTTACAGTGGGGCTGGGCTCTGCAAAAGTCTTAAAGA 1260  
Db 1279 CGAGACTCATGACTGGAGCTTACAGTGGGGCTGGGCTCTGCAAAAGTCTTAAAGA 1338  
QY 1261 AAATCTTTCAGTTCCTTTCAGAGAGACTGCGCGGAGCGCAAGCAAGCGGCGCT 1320  
Db 1339 AAATCTTTCAGTTCCTTTCAGAGAGACTGCGCGGAGCGCAAGCAAGCGGCGCT 1398  
QY 1321 GCACAAAGCGGGGCTGTGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 1380  
Db 1399 GCACAAAGCGGGGCTGTGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 1458

QY 1381 TGGGCTGTCTGACGACGACGCGGCGGACGACAGCAGTCTGACAGAACCCCGCAAACTGCT 1440  
Db 1459 TGGGCTGTCTGACGACGACGCGGCGGACGACAGCAGTCTGACAGAACCCCGCAAACTGCT 1518  
QY 1441 GCGAGGACACCGGTGTACAGGAGCGGGTGTATGACCGAGCTGAGTGAAGAAACGCTCCG 1500  
Db 1519 GCGAGGACACCGGTGTACAGGAGCGGGTGTATGACCGAGCTGAGTGAAGAAACGCTCCG 1578  
QY 1501 AGAAGGAGGAGGATCATGTATGACCGCGGAAGTAGACCTGCTCCAGTCTGCTGGGTT 1560  
Db 1579 AGAAGGAGGAGGATCATGTATGACCGCGGAAGTAGACCTGCTCCAGTCTGCTGGGTT 1638  
QY 1561 TGGCGGAGGATCATGTATGACCGCGGAAGTAGACCTGCTCCAGTCTGCTGGGTT 1620  
Db 1639 TGGCGGAGGATCATGTATGACCGCGGAAGTAGACCTGCTCCAGTCTGCTGGGTT 1698  
QY 1621 CAATCAGCCCTGGGCGACAGCAGAGGAGGAGAGACAGAGAAAGAAACACAGCAT 1680  
Db 1699 CAATCAGCCCTGGGCGACAGCAGAGGAGGAGAGACAGAGAAAGAAACACAGCAT 1758  
QY 1681 GAGACACAGTAAATGAATTAACCATTAATTAATTAATTAATTAATTAATTAATTA 1740  
Db 1759 GAGACACAGTAAATGAATTAACCATTAATTAATTAATTAATTAATTAATTAATTA 1818  
QY 1741 GCCAGAAATGTACCAATTTTTCAGTGTGAGTGTGACGCTTCTTTTCCACAAGCA 1800  
Db 1819 GCCAGAAATGTACCAATTTTTCAGTGTGAGTGTGACGCTTCTTTTCCACAAGCA 1878  
QY 1801 GAGAGAAATTAACACTGTTTCAAAACCCGGGAGTGTGCTGTAAAGAAAGACATTA 1860  
Db 1879 GAGAGAAATTAACACTGTTTCAAAACCCGGGAGTGTGCTGTAAAGAAAGACATTA 1938  
QY 1861 AATGCTTTAAGACATGTAAAAA 1889  
Db 1939 AATGCTTTAAGACATGTAAAAA 1967

RESULT 6  
US-09-397-022-4454  
Sequence 4454, Application US/09397022  
GENERAL INFORMATION:  
Applicant: Gearing, David P.  
Applicant: Holzman, Douglas A.  
TITLE OF INVENTION: NUCLEIC ACID MOLECULES DERIVED FROM A  
FILE REFERENCE: M198-46PM  
CURRENT APPLICATION NUMBER: US/09/397, 022  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: 60/100, 465  
PRIOR FILING DATE: 1998-09-15  
PRIOR APPLICATION NUMBER: 60/106, 443  
PRIOR FILING DATE: 1998-10-30  
PRIOR APPLICATION NUMBER: 60/107, 257  
PRIOR FILING DATE: 1998-11-05  
PRIOR APPLICATION NUMBER: 60/126, 906  
PRIOR FILING DATE: 1999-03-30  
PRIOR APPLICATION NUMBER: 60/132, 099  
PRIOR FILING DATE: 1999-04-30  
NUMBER OF SEQ ID NOS: 5775  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 4454  
LENGTH: 1918  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-397-022-4454

Query Match 98.5%; Score 1869.4; DB 17; Length 1918;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1881; Conservative 2; Mismatches 3; Indels 1; Gaps 1;  
QY 1 GCCAATCTCGAGAGCTGTGCTGTGCTGCGGCGGAGCGCGGAGAGACGAGACCGG 60  
|||||













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RESULT 10
US-09-652-917-3346/c
: Sequence 3346, Application US/09652917
: GENERAL INFORMATION:
: APPLICANT: Shyjan, Andrew W.
: APPLICANT: Holtzman, Douglas A.
: APPLICANT: Distefano, Peter
: TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
: TITLE OF INVENTION: THEREFOR
: FILE REFERENCE: 1600.1170-001
: CURRENT APPLICATION NUMBER: US/09/652,917
: CURRENT FILING DATE: 2000-08-30
: PRIOR APPLICATION NUMBER: 60/151,422
: PRIOR FILING DATE: 1999-08-30
: NUMBER OF SEQ ID NOS: 3855
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 3346
: LENGTH: 1925
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-652-917-3346

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Query Match	98.2%	Score 1863.2	DB 25	Length 1925
Best Local Similarity	99.6%	Pred. NO. 0		
Matches 1876	Conservative	2	Mismatches 5	Indels 1
			Gaps	1

QY	1	GCMAATCCGGAGGCTCTGATGCTCGGGCCCGGGAGGCGAGCGGGAGAGACAGAGACCCG	60
Db	1905	GCCAACTCCGGAGGCGC-GGGTCTCGGGCCCGGGAGCGCGAGCGGGAGACAGACCCG	184
QY	61	CAGCCGGAGGCCCGAGGCGCGGGCGATGACAGCTCCGCGAAGCGGACCTCGCTCTCTTA	120
Db	1846	CAGCCGGAGGCCCGAGGCGGGCGATGACAGCTCCGCGAAGCGGACCTCGCTCTCTTA	178
QY	121	AGCTACGACCGCTGCTCTCCGGGGAGGAGGCGGGGGCCGACGAGCTTCGGACAGCACAC	180
Db	1786	AGCTACGACCGCTGCTCTCCGGGGAGGAGGCGGGGGCCGACGAGCTTCGGACAGCACAC	1722
QY	181	CGCTGCACCCGGGGAGCGCTCCGCTGCTCGCCTCCCTGATGCGCTTGCCCTCTCCG	240
Db	1726	CGCTGCACCCGGGGAGCGCTCCGCTGCTCGCCTCCCTGATGCGCCTTGCCCTCTCCG	1667
QY	241	GCCCCGGGACCTCCGGGAGAAATGTGGGTCTCAAGACATCCGGCAACTTTTGGGGATTTGT	300
Db	1666	GCCCCGGGACCTCCGGGAGAAATGTGGGTCTCAAGACATCCGGCAACTTTTGGGGATTTGT	1607
QY	301	CTTGCTTCCAGGCTTTTGGCGTGCMAATCCACAGTGTACCACTGTGAAGAATTCACGCTGAA	360
Db	1606	CTTGCTTCCAGGCTTTTGGCGTGCMAATCCACAGTGTACCACTGTGAAGAATTCACGCTGAA	154
QY	361	CACGACTGCTCTCTCCCGCAGTTTCATTGTGAATTGCACGGTAAACGTTCAAGACTGTG	420
Db	1546	CACGACTGCTCTCTCCCGCAGTTTCATTGTGAATTGCACGGTAAACGTTCAAGACTGTG	1487
QY	421	TCAGAAACAAGGATGAGAGCAAAATGCGCGGATCATTTACCGCAAGCTGTGCATCATC	480
Db	1486	TCAGAAACAAGTGTATGAGCAAAATGCGCGGATCATTTACCGCAAGCTGTGTGCATCATC	1422
QY	481	ACGGGCTGTCTCATCGCTCTGCGGGGTACCACTCTTCTGTCTCCCAAGAACTGAA	540

Db	1426	AGCGCCTGTCTCATGGCTCTGCGGGGTACAGATCTTGTGTCCTCCAGGAAAGTGA	1367
Oy	541	CTCAGTTTGATAGCTGCTGCAACACCCCTTTTGTAAAGGGCCAAAGGCCAAAGAAAG	600
Db	1366	CTCAGTTTGATAGCTGCTGCAACACCCCTTTTGTAAAGGGCCAAAGGCCAAAGAAAG	1307
Oy	601	GGGAAGTTTCGCTCGAGCCCTGAGGCGAAGGGTCCGCAACCAATCCGTGTCCCAATT	660
Db	1306	GGGAAGTTTCGCTCGAGCCCTGAGGCGAAGGGTCCGCAACCAATCCGTGTCCCAATT	1247
Oy	661	AGCCCTCTTTCGCGCACACTGCTGAAGCTGAAGAGATGCCACCCCTCTGCACTGTTC	720
Db	1246	AGCCCTCTTTCGCGCACACTGCTGAAGCTGAAGAGATGCCACCCCTCTGCACTGTTC	1187
Oy	721	TTTCAGCCCTCGCCCCCAACCCCAACCCCTCTGATAGATTCTTCGGGTGTCCTTTT	780
Db	1186	TTTCAGCCCTCGCCCCCAACCCCAACCCCTCTGATAGATTCTTCGGGTGTCCTTTT	1127
Oy	781	ATTCTGGGTAGGAGGAGGAGTCCGTCTCTTTTGTTCCTGTGCAATTAATGAAGAG	840
Db	1126	ATTCTGGGTAGGAGGAGGAGTCCGTCTCTTTTGTTCCTGTGCAATTAATGAAGAG	1067
Oy	841	CTCGCTTAACGATTTCTGATAAATTTAGCTGATGCAATTTTCAATGATCTGAAGA	900
Db	1066	CTCGCTTAACGATTTCTGATAAATTTAGCTGATGCAATTTTCAATGATCTGAAGA	1007
Oy	901	AGGAGGTGAGATGAAGTTTACCCCATCTCTGTATACCGGAGTCAAGGCGAGCTGCG	960
Db	1006	AGGAGGTGAGATGAAGTTTACCCCATCTCTGTATACCGGAGTCAAGGCGAGCTGCG	947
Oy	961	AGAAGTCAGTCTTGAAGTCACTGAGGTGGCATCTGCTTTTGTAAAGCTCCAGTGTG	1020
Db	946	AGAAGTCAGTCTTGAAGTCACTGAGGTGGCATCTGCTTTTGTAAAGCTCCAGTGTG	887
Oy	1021	CATTTCATCCCTGATGGGGGCAATGTTTGAAGTGCAGAGTGAAGTATACCTTTCTTAC	1080
Db	886	CATTTCATCCCTGATGGGGGCAATGTTTGAAGTGCAGAGTGAAGTATACCTTTCTTAC	827
Oy	1081	GAGTGGAGGGCAAGTCCCACTCAAGGCTCCCTGCTTGAATTCATGATGCTCT	1140
Db	826	GAGTGGAGGGCAAGTCCCACTCAAGGCTCCCTGCTTGAATTCATGATGCTCT	767
Oy	1141	GAAACCAATTCCTGCGAGCAAGTAATGGCTGTTTGCAGCTAGTTGGGCTCTAGTACT	1200
Db	766	GAAACCAATTCCTGCGAGCAAGTAATGGCTGTTTGCAGCTAGTTGGGCTCTAGTACT	707
Oy	1201	CGAGACTCAATGACTGGGACTTGAAGTGGGGCTCGGCTCTGTAAGTGTCTTAAGA	1260
Db	706	CGAGACTCAATGACTGGGACTTGAAGTGGGGCTCGGCTCTGTAAGTGTCTTAAGA	647
Oy	1261	AAATTTCTGAGTTCTGCTTGCAAGGAGTGGGGCGGGAGCGCAAGAGCAACGGGCGCT	1320
Db	646	AAATTTCTGAGTTCTGCTTGCAAGGAGTGGGGCGGGAGCGCGCAAGAGCAACGGGCGCT	587
Oy	1321	GCACAAACGGGCGCTCTCGGTGGTGGAGTGCATGTACGGCGAGGCGCTTCTGTGCT	1380
Db	586	GCACAAACGGGCGCTCTCGGTGGTGGAGTGCATGTACGGCGAGGCGCTTCTGTGCT	527
Oy	1381	TGGCGTGTGACGAGCAAGCGCGGACGACAGCACTCGACAGAAACCCGCGGAAATGCT	1440
Db	526	TGGCGTGTGACGAGCAAGCGCGGAGTACGACACTCGACAGAAACCCGCGGAAATGCT	467
Oy	1441	GGGAGGACCGGTGTACAGAGCGGGGTGATGACCAAGTGAAGTGAAGAAACGTCCTCG	1500
Db	466	GGGAGGACCGGTGTACAGAGCGGGGTGATGACCAAGTGAAGTGAAGAAACGTCCTCG	407
Oy	1501	AGAAAGGAGAGGATCATGTAGCGCCCGGAATGAGACTCTGCAAGTGTGCTTGGGTT	1560
Db	406	AGAAAGGAGAGGATCATGTAGCGCCCGGAATGAGACTCTGCAAGTGTGCTTGGGTT	347
Oy	1561	TGGCCGAGCATATCTCCGAATCTGGTGGGATTCAGAGTATACGGCATGTGCAAA	1620

Db	346	TGGCCGCA	CCCATGATCTCTCCGAA	TCGTGGGCA	ATCCAGCATAGGCGCAATGTCA	CA	287
Oy	1621	CAATCAGCCCTTGGG	GCAGACAGCGACGGAGGGAGAGAC	ACAGAAAAA	AAAAAACACACAT		1680
Db	286	CAATCAGCCCTTGGG	GCAGACCGGACGGAGGGAGAGAC	ACAGAAAAA	AAAAAACACACAT		227
Oy	1681	GAGAACACAGTAAAT	TGAATAAACCATAAATATTTAGCCCTCTGTTCTGTCTACTG				1740
Db	226	GAGAACACAGTAAAT	TGAATAAACCATAAATATTTAGCCCTCTGTTCTGTCTACTG				167
Oy	1741	GCCAGAAATGGTACCA	ATTTTCACTGTGGACTGGACACTGACAGCTTCTTTGGCCAAACGA				1800
Db	166	GCCAGAAATGGTACCA	ATTTTCACTGTGGACTGGACACTGACAGCTTCTTTGGCCAAACGA				107
Oy	1801	GAGACAATTTAA	CACCTGTTTCAAAACCCGGGGGAGTGGCTGTGTTAAAGAAAGCACATTA				1860
Db	106	GAGACAATTTAA	CACCTGTTTCAAAACCCGGGGGAGTGGCTGTGTTAAAGAAAGCACATTA				47
Oy	1861	AATGCTTTAGACAGT	GTAAAAAAA	1884			
Db	46	AATGCTTTAGACAGT	GTATTTAAA	23			

```

RESULT 11
US-09-699-997-11085/c
; Sequence 11085, Application us/096999997
; GENERAL INFORMATION:
; APPLICANT: Curtiss, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Distefano, Peter
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 1600.2020-001
; CURRENT APPLICATION NUMBER: US/09/699,997
; CURRENT FILING DATE: 2000-10-30
; PRIORITY APPLICATION NUMBER: 60/162,359
; PRIORITY FILING DATE: 1999-10-29
; NUMBER OF SEQ ID NOS: 12714
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11085
; LENGTH: 1925
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-699-997-11085

```

Query Match	Best Local Similarity	98.2% 99.6%	Score 1863.2	DB 27	Length 1925
Matches 1876	Conservative	2	Mismatches	5	Indels 1
					Gaps 1
QY	1	GCAACATCCGAGAGCTCTGATGCTCGGCCCCGGAGACGGGAGCGGAGAGAGAGACCCG	60		
Db	1905	GCCAACTCCGGAGAGGCC -GATGCTCGGCCCGGGAGACGGAGGGGAGAGAGACCCG	1847		
QY	61	CAGCCGGGAGGCCGACAGCCCGGGCGATGCAAGCTCCGCGAGCGGCACCTGCGCTCTCTTA	120		
Db	1846	CAGCCGGGAGGCCGACAGCCCGGGCGATGCAAGCTCCGCGAGCGGCACCTGCGCTCTCTTA	1787		
QY	121	AGCTACGACCCCTCGCTCCGGGCGACAGACGGGGCCCCAGCAGAGCTGGGCGACACAC	180		
Db	1786	AGCTACGACCCCTCGCTCCGGGCGACAGACGGGGCCCCAGCAGAGCTGGGCGACACAC	1727		
QY	181	CGGTGACAGCCGGGGAGCCTCCGCTGATGCGCCTCTGTATGCGCTTGCCCTCCCG	240		
Db	1726	CGGTGACAGCCGGGGAGCCTCCGCTGATGCGCCTCTGTATGCGCTTGCCCTCCCG	1667		
QY	241	GCCCCGGGACATCCGGGAGAAATGTGGGTCCCTAGGCATCGCGGCACATTTTGGCGATTGTT	300		
Db	1666	GCCCCGGGACATCCGGGAGAAATGTGGGTCCCTAGGCATCGCGGCACATTTTGGCGATTGTT	1607		
QY	301	CTTGCTTCCAGGCTTTGGCGTGCACAAATCCAGTGCATCCAGTGTGAAGAATTCACAGTGAA	360		
Db	1606	CTTGCTTCCAGGCTTTGGCGTGCACAAATCCAGTGCATCCAGTGTGAAGAATTCACAGTGAA	1547		

QY	361	CAACGACTCTCCCTCCCGCAGTTCAATTGGAAATTCGACGGGTGAACGTTCAAGACATG	420
Db	1546	CAACGACTCTCTCTCCCGCAGTTCAATTGGAAATTCGACGGGTGAACGTTCAAGACATG	1487
QY	421	TCAGAAAGAAGTATGATGAGCAAAAGTCCCGGATCATGTACCGCAGATCTTGTGATCATC	480
Db	1486	TCAGAAAGAAGTATGATGAGCAAAAGTCCCGGATCATGTACCGCAGATCTTGTGATCATC	1422
QY	481	ACGGGCTGTCTCATATGGCTCTGCGGGGTACCAAGTCTTGTGCTCCCAAGGAAATCGAA	540
Db	1426	ACGGGCTGTCTCATATGGCTCTGCGGGGTACCAAGTCTTGTGCTCCCAAGGAAATCGAA	1367
QY	541	CTCAGTTTCATACGCTGCTGCAACAACCCCTCTTTTGAAGGGGCCAAGGCCCAAGAAAG	600
Db	1366	CTCAGTTTCATACGCTGCTGCAACAACCCCTCTTTTGAAGGGGCCAAGGCCCAAGAAAG	1307
QY	601	GGGAAGTTCTGCTTCGCGCCCTCAGGCGACGGGCTCCGACACCAATCCGTGTTCTCAAAAT	660
Db	1306	GGGAAGTTCTGCTTCGCGCCCTCAGGCGACGGGCTCCGACACCAATCCGTGTTCTCAAAAT	1247
QY	661	ACCCCTCTTCTGGGCACACTGCTGAAGCTGAAGAGATGCGCACCCCTCTGCAATTTTC	720
Db	1246	ACCCCTCTTCTGGGCACACTGCTGAAGCTGAAGAGATGCGCACCCCTCTGCAATTTTC	1187
QY	721	TTCCAGCCCTCGGCCCAACCCCGCACCTCCCGAGAGAGATTTTCTTGGGGTGTCCTTTT	780
Db	1186	TTCCAGCCCTCGGCCCAACCCCGCACCTCCCGAGAGAGATTTTCTTGGGGTGTCCTTTT	1127
QY	781	ATTCTGGGTAGGGAGCGGGAGTCCGATGTTCTCTTTTGTCTGTGCAAAATAAATAAAG	840
Db	1126	ATTCTGGGTAGGGAGCGGGAGTCCGATGTTCTCTTTTGTCTGTGCAAAATAAATAAAG	1067
QY	841	CTCGGTAAAGCATTTCTGAATTAATTACGCTGACTGATTAATTTCTAGATGTACTTGAAGA	900
Db	1066	CTCGGTAAAGCATTTCTGAATTAATTACGCTGACTGATTAATTTCTAGATGTACTTGAAGA	10070
QY	901	AGGAGGTGAGAGAAAGTTCACCCCCATGTCGTGTGAACCGGAGTCAAGCCAGGCTGGC	960
Db	1006	AGGAGGTGAGAGAAAGTTCACCCCCATGTCGTGTGAACCGGAGTCAAGCCAGGCTGGC	947
QY	961	AGAGTCWGTCTCTTAGAAGTCACTGAGAGTGGGCACTCGCTTTTGTAAAGCCTCCAGTGC	1020
Db	946	AGAGTCWGTCTCTTAGAAGTCACTGAGAGTGGGCACTCGCTTTTGTAAAGCCTCCAGTGC	887
QY	1021	CATTCCATTCCTGATGAGGGGCATAGTTTGAGACTGCAAGATGAGAGTGAAGCTTTCTTAG	1080
Db	886	CATTCCATTCCTGATGAGGGGCATAGTTTGAGACTGCAAGATGAGAGTGAAGCTTTCTTAG	827
QY	1081	GGCTGGAGGGGCGAGTTCCCACTCAAGAGCTCCCTCGCTGTGACATTCAAACTTCATGCTCT	1140
Db	826	GGCTGGAGGGGCGAGTTCCCACTCAAGAGCTCCCTCGCTGTGACATTCAAACTTCATGCTCT	767
QY	1141	GAAAAACCATTCCTCTCAGCAGAGATTGGCTTGTCCGCCCTGAGTTGGGCTCTGATGACT	1200
Db	766	GAAAAACCATTCCTCTCAGCAGAGATTGGCTTGTCCGCCCTGAGTTGGGCTCTGATGACT	707
QY	1201	CGAGACTCAATGACTGGGACTTAACTGAGCTGGGCGTGGGCTCTGCTGAAAAGTGTTAAGA	1260
Db	706	CGAGACTCAATGACTGGGACTTAACTGAGCTGGGCGTGGGCTCTGCTGAAAAGTGTTAAGA	647
QY	1261	AAATTTTCAGTTCTCCTCTGCAAGAGACTGCGCGCGCGGACCGGGAAGACAGAGGGCGCT	1320
Db	646	AAATTTTCAGTTCTCCTCTGCAAGAGACTGCGCGCGCGGACCGGGAAGACAGAGGGCGCT	587
QY	1321	GCACAAACCGGGCGCTGTGTCGTGTGTGAGATGCGCATGTACGCGCAGAGCGCTTCTCGGT	1380
Db	586	GCACAAACCGGGCGCTGTGTCGTGTGTGAGATGCGCATGTACGCGCAGAGCGCTTCTCGGT	527
QY	1381	TGGCGTCTGCAAGCAGACAGCGGCGACAGCAAGCACTTGCAAGAACACCCGCGCAAACTGCT	1440
Db	526	TGGCGTCTGCAAGCAGACAGCGGCGACAGCAAGCAAGCACTTGCAAGAACACCCGCGCAAACTGCT	467
QY	1441	GGAGGACACCGGTGTACAGAGACCGGGTTATGTACGAGCTGAAGGTGAAAAACGTCTCCG	1500

[illegible]

|||||  
Db 466 GCGAGACACCGCTGACAGAGAGGAGGATGATGACGAGTGAAGTGAAGAAACGCTCCG 407  
Qy 1501 AGAAGGAGAGAGATCATGATGACGCGGAGAGTAGAGCTGCTCCAGTGTGCTGGGTT 1560  
Db 406 AAGAAGGAGAGAGATCATGATGACGCGGAGAGTAGAGCTGCTCCAGTGTGCTGGGTT 347  
Qy 1561 TGGCCGACAGCATGATCTCCGAAATCTGTTGGGATCCAGCATACGAGCAATGTACAA 1620  
Db 346 TGGCCGACAGCATGATCTCCGAAATCTGTTGGGATCCAGCATACGAGCAATGTACAA 287  
Qy 1621 CATCAGCCCTGGGAGACAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1680  
Db 286 CATCAGCCCTGGGAGACAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 227  
Qy 1681 GAGAACACAGTAATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1740  
Db 226 GAGAACACAGTAATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 167  
Qy 1741 GCGAGAAATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1800  
Db 166 GCGAGAAATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 107  
Qy 1801 GAGAGAAATTAACACATGTTTCAAAACCGGAGAGAGAGAGAGAGAGAGAGAGAG 1860  
Db 106 GAGAGAAATTAACACATGTTTCAAAACCGGAGAGAGAGAGAGAGAGAGAGAGAG 47  
Qy 1861 AATGCTTTAGACAGTGTAAAAAA 1884  
Db 46 AATGCTTTAGACAGTGTAAAAAA 23

## RESULT 12

US-09-710-281-4458/c  
Sequence 4458, Application US/09710281  
GENERAL INFORMATION:  
APPLICANT: Hunter, John J.  
APPLICANT: Shyjan, Andrew W.  
APPLICANT: Stbdal, Hilde  
TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES  
FILE REFERENCE: 1600, 2036-001  
CURRENT APPLICATION NUMBER: US/09/710, 281  
CURRENT FILING DATE: 2000-11-10  
PRIOR APPLICATION NUMBER: 60/164, 254  
PRIOR FILING DATE: 1999-11-09  
NUMBER OF SEQ ID NOS: 5803  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 4458  
LENGTH: 1925  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-710-281-4458

Query Match 98.2%; Score 1863.2; DB 28; Length 1925;  
Best Local Similarity 99.6%; Pred. No. 0;  
Matches 1876; Conservative 2; Mismatches 5; Indels 1; Gaps 1;

Qy 1 GCCAATCTCGGAGGCTCTGCTGCTGCGGCGGAGAGCGGAGAGAGAGAGAGAGAGCG 60  
Db 1905 GCCAATCTCGGAGGCTCTGCTGCTGCGGCGGAGAGCGGAGAGAGAGAGAGAGCG 1847  
Qy 61 CAGCCGGAGAGCGGAG 120  
Db 1846 CAGCCGGAGAGCGGAG 1787  
Qy 121 AGCTAGACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180  
Db 1786 AGCTAGACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1727  
Qy 181 CAGTGAAG 240  
Db 1726 CAGTGAAG 1667

Qy 241 GCCCGGAGACTCCGGAGAGATGAGGCTCCTAGGCATCGGCGCACTTTTGGGATGTT 300  
Db 1666 GCCCGGAGACTCCGGAGAGATGAGGCTCCTAGGCATCGGCGCACTTTTGGGATGTT 1607  
Qy 301 CTTCGCTTCAGAGCTTTCAGCTGCAATTCAGTCTACAGTGTGAAGAAATTCAGCTGA 360  
Db 1606 CTTCGCTTCAGAGCTTTCAGCTGCAATTCAGTCTACAGTGTGAAGAAATTCAGCTGA 1547  
Qy 361 CAAGAGCTGCTCCTCCCGAGTTCAATTGTGAATTGACAGGTTCAACAGTGTG 420  
Db 1546 CAAGAGCTGCTCCTCCCGAGTTCAATTGTGAATTGACAGGTTCAACAGTGTG 1487  
Qy 421 TCAGAAAGAGATGATGAGCAAGTCCGGAGATCATGTACCGCAATCTGTCATATC 480  
Db 1486 TCAGAAAGAGATGATGAGCAAGTCCGGAGATCATGTACCGCAATCTGTCATATC 1427  
Qy 481 AGCGGCTGTCTCATGCTCTGCGGAGTACAGTCTCTGCTCCCGAGAACTGA 540  
Db 1426 AGCGGCTGTCTCATGCTCTGCGGAGTACAGTCTCTGCTCCCGAGAACTGA 1367  
Qy 541 CTGAGTTTGCATGAGTGTCTGCAACACCCCTCTTTTAACGGGCCAAGGCCAAGAA 600  
Db 1366 CTGAGTTTGCATGAGTGTCTGCAACACCCCTCTTTTAACGGGCCAAGGCCAAGAA 1307  
Qy 601 GCGAAGTTCTGCTCGGCTCGGCTCAGGCGAGGCTCCGACACCATCTGTTCTCAAA 660  
Db 1306 GCGAAGTTCTGCTCGGCTCGGCTCAGGCGAGGCTCCGACACCATCTGTTCTCAAA 1247  
Qy 661 AGCCCTCTTCTCGGCACTGTGAAGCTGAAGAGTGAAGAGTGAAGAGTGAAGAG 720  
Db 1246 AGCCCTCTTCTCGGCACTGTGAAGCTGAAGAGTGAAGAGTGAAGAGTGAAGAG 1187  
Qy 721 TTCCAGGCTCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 780  
Db 1186 TTCCAGGCTCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1127  
Qy 781 ATTCTGGGTGAGGAGGCGGAGTCCGTTCTCTTTGTTCTGCAATTAATGAAGAG 840  
Db 1126 ATTCTGGGTGAGGAGGCGGAGTCCGTTCTCTTTGTTCTGCAATTAATGAAGAG 1067  
Qy 841 CTGCGTAAGCACTTGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTA 900  
Db 1066 CTGCGTAAGCACTTGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1007  
Qy 901 AGGAGGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 960  
Db 1006 AGGAGGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 947  
Qy 961 AGAGTGTGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1020  
Db 946 AGAGTGTGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 887  
Qy 1021 CATTCATCTCCCTGATGAGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1080  
Db 886 CATTCATCTCCCTGATGAGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 827  
Qy 1081 GGTGAGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1140  
Db 826 GGTGAGGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 767  
Qy 1141 GAAAGCAATCTCTGAGAGAAATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1200  
Db 766 GAAAGCAATCTCTGAGAGAAATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 707  
Qy 1201 CGAGACTCAATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1260  
Db 706 CGAGACTCAATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 647  
Qy 1261 AAATCTTCTGAGTGTCTCTTGAAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1320  
Db 646 AAATCTTCTGAGTGTCTCTTGAAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 587

OY	1321	GCACAAAGGGGGGCGTGGTGGTGGAGTGGCCATGTACGGCAGGCGCTTCTGTTG	1380
Db	586	GCACAAAGGGGGGCGTGGTGGTGGAGTGGCCATGTAGCCGAGCGCTTCTGTTG	527
OY	1381	TGGCGTGTGCACGACGAGCGGGCAGACAGACCTGTACGAACACCGCGGAAACGT	1440
Db	526	TGGCGTGTGCACGACGAGCGGGCAGACAGACCTGTACGAACACCGCGGAAACGT	467
OY	1441	GGGAGACACCGTGTACAGAGCGGGTTGATGACCGAGTGAGGTAGAAAAAGCTCCG	1500
Db	466	GGGAGACACCGTGTACAGAGCGGGTTGATGACCGAGTGAGGTAGAAAAAGCTCCG	407
OY	1501	AAGAGGGAGAGAGATCATGTACGCCCGGAATGAGACCTGTCCAGTCTGTGGGT	1560
Db	406	AAGAGGGAGAGAGATCATGTACGCCCGGAATGAGACCTGTCCAGTCTGTGGGT	347
OY	1561	TGGCGGACCAATGATCCTCCGAATCTGGTGGGCAATCCAGATACGGCCAAATGCACAA	1620
Db	346	TGGCGGACCAATGATCCTCCGAATCTGGTGGGCAATCCAGATACGGCCAAATGCACAA	287
OY	1621	CAATCAGCCCTGGGCGAGACAGCAGAGGAGGAGAGACAGAGAAAAAGAAACACACAT	1680
Db	286	CAATCAGCCCTGGGCGAGACAGCAGAGGAGGAGAGACAGAGAAAAAGAAACACACAT	227
OY	1681	GAGAACACGTAAATGAATTAATTAATTTAGCCCTCTGTCTGTGCTTAAGT	1740
Db	226	GAGAACACGTAAATGAATTAATTAATTTAGCCCTCTGTCTGTGCTTAAGT	167
OY	1741	GCAGAGAAATGTTACCAATTTTCACTGTGTGACTGACAGCTCTCTTTGCCCAACCAA	1800
Db	166	GCAGAGAAATGTTACCAATTTTCACTGTGTGACTGACAGCTCTCTTTGCCCAACCAA	107
OY	1801	GAGAGAAATTAACACTGTTTCAAAACCCGGGGAGTGGCTGTTAAGAGAAACACTTA	1860
Db	106	GAGAGAAATTAACACTGTTTCAAAACCCGGGGAGTGGCTGTTAAGAGAAACACTTA	47
OY	1861	AATGCTTTAGACAGTGTAAAAAA 1884	
Db	46	AATGCTTTAGACAGTGTATTTAA 23	

[illegible]

```

RESULT 14
US-09-371-168-7188
; Sequence 7188, Application US/09371168
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, M. Alexandra
; TITLE OF INVENTION: NOCLETIC ACID MOLECULES DERIVED FROM A
; TITLE OF INVENTION: HUMAN BRAIN LIBRARY
; FILE REFERENCE: MLN98-37PA
; CURRENT APPLICATION NUMBER: US/09/371,168
; CURRENT FILING DATE: 1999-08-10
; EARLIER APPLICATION NUMBER: 60/095,907
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/103,145
; EARLIER FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 8285
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 7188
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-371-168-7188

Query Match          97.6%; Score 1851; DB 17; Length 1917
Best Local Similarity 99.7%; Pred. No. 0;

```

Matches	1873:	Conservative	2:	Mismatches	2:	Indels	2:	Gaps	2:
QY	1	GGCAACTCCGGAGGCTGCTGCTGCTGCGCCCGGGAGCGGAGGGGGAGAGAGACCCG	60						
Db	16	GGCAACTCCGGAGGGGC -GTCCTGGCCCCGGAGGCGAGGGAGGACAGAGACCCG	74						
QY	61	CAGCCGGAGGCCGAGCGCGGGCGATGACAGGCTCCGCGAGGCGACCTCGGCTCCTTA	120						
Db	75	CAGCCGGAGGCCGAGCGCGGGCGATGACAGGCTCCGCGAGGCGACCTCGGCTCCTTA	134						
QY	121	AGCTAGACCGTCGTCTCCGCGGACAGACCGCGGGCCCAAGCAAGCTTCGGACGCCACAC	180						
Db	135	AGCTAGACCGTCGTCTCCGCGGACAGACCGCGGGCCCAAGCAAGCTTCGGACGCCACAC	194						
QY	181	CGCTGAGCGGGGAGCGCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	240						
Db	195	CGCTGAGCGGGGAGCGCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	254						
QY	241	GGCCCGGGAGCTCCGGGAGATGGTGCTTAGGCATCGCGGACACTTTTGGGGATTGTT	300						
Db	255	GGCCCGGGAGCTCCGGGAGATGGTGCTTAGGCATCGCGGACACTTTTGGGGATTGTT	314						
QY	301	CTTGGCTCCAGGCTTTGGCCTGCAATTCAGTCTACAGTGAAGTAATTCAGCT -GA	359						
Db	315	CTTGGCTCCAGGCTTTGGCCTGCAATTCAGTCTACAGTGAAGTAATTCAGCTAGA	374						
QY	360	ACAAGACACTGCTCTCCGCCCTCCGAGTTTCATTGTGAATTCAGCGGTGAACGTTCAAGACATGT	419						
Db	375	ACAAGACACTGCTCTCCGCCCTCCGAGTTTCATTGTGAATTCAGCGGTGAACGTTCAAGACATGT	434						
QY	420	GTCCAGAAAGATGATGAGGAGCAAAAGCGCGGGATCATGTACCGCAAGTCTCTGTCATCAT	479						
Db	435	GTCCAGAAAGATGATGAGGAGCAAAAGCGCGGGATCATGTACCGCAAGTCTCTGTCATCAT	494						
QY	480	CAGCGGCTGTCTCATCGCCTCTGCGGGTACCAGTCTTCTGCTCCCGAGGAAATCGA	539						
Db	495	CAGCGGCTGTCTCATCGCCTCTGCGGGTACCAGTCTTCTGCTCCCGAGGAAATCGA	554						
QY	540	ACTCAGTTTGCATCAGCTCTGTCAACACCCCTTTGTAAAGGGGCAAGGCCCAAGAAAA	599						
Db	555	ACTCAGTTTGCATCAGCTCTGTCAACACCCCTTTGTAAAGGGGCAAGGCCCAAGAAAA	614						
QY	600	GGGGAAGTTCTGCTCGGCTCGGCCCTCAGGCCAGGGCTCCGACACACATCTGTTCTCTAAAT	659						
Db	615	GGGGAAGTTCTGCTCGGCTCGGCCCTCAGGCCAGGGCTCCGACACACATCTGTTCTCTAAAT	674						
QY	660	TAGCCTCTTCTTGGGACACACTGCTGAAGCTGAAGAGATGCCACCCCTCTGCATTTGTT	719						
Db	675	TAGCCTCTTCTTGGGACACACTGCTGAAGCTGAAGAGATGCCACCCCTCTGCATTTGTT	734						
QY	720	CTTCCAGCCCTGCGCCCCAACCCGCCACCTCCTGAGTGAAGTTTCTTGGGTGCTCTT	779						
Db	735	CTTCCAGCCCTGCGCCCCAACCCGCCACCTCCTGAGTGAAGTTTCTTGGGTGCTCTT	794						
QY	780	TATTCTGGTAGGGAGCGGAGTCCGTGTTCTTTTGTTCCTGTGCAATAATGAAGA	839						
Db	795	TATTCTGGTAGGGAGCGGAGTCCGTGTTCTTTTGTTCCTGTGCAATAATGAAGA	854						
QY	840	GGCGGGTAAAGCACTTGTGAATAAATTCAAGTCAAGCAATTTCAAGATTAAGG	899						
Db	855	GGCGGGTAAAGCACTTGTGAATAAATTCAAGTCAAGCAATTTCAAGATTAAGG	914						
QY	900	AAGGAGTGGAGTGAAGAAAGTTCAACCCCATGTCTGTGTAAACCGGAGTCAAGGCCAGCGTGC	959						
Db	915	AAGGAGTGGAGTGAAGAAAGTTCAACCCCATGTCTGTGTAAACCGGAGTCAAGGCCAGCGTGC	974						
QY	960	CAGAGTCGTCCTTAGAAGTCACTGAGGTGGCATCTGCCCTTTGTAAAGCTTCCAGTGT	1019						
Db	975	CAGAGTCGTCCTTAGAAGTCACTGAGGTGGCATCTGCCCTTTGTAAAGCTTCCAGTGT	1034						
QY	1020	CAATTCATCCCGATGGGGGCAATGATTTGAGACTGAGAGTGAAGTGAAGTCAAGTCTTTCTTA	1079						
Db	1035	CAATTCATCCCGATGGGGGCAATGATTTGAGACTGAGAGTGAAGTGAAGTCAAGTCTTTCTTA	1094						

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QY 1080 GGGCTGGAGGGCCAGTCCCTCAAGGCTCCCTGCTTGAATTCAAATTCATGCTCC 1139
      |||
      |||
      |||
Db 1095 GGGCTGGAGGGCCAGTCCCTCAAGGCTCCCTGCTTGAATTCAAATTCATGCTCC 1154
      |||
      |||
      |||
QY 1140 TGAAGACCTCTCTGACAGCAAAATTTGGTGTTCGCCCTGAGTTGGCTTACTGAC 1199
      |||
      |||
      |||
Db 1155 TGAAGACCTCTCTGACAGCAAAATTTGGTGTTCGCCCTGAGTTGGCTTACTGAC 1214
      |||
      |||
      |||
QY 1200 TCGAGACTCAATGACTGGGACTTAGACTGGGCTCGCTCGCTCGAAGAGTCTTAAG 1259
      |||
      |||
      |||
Db 1215 TCGAGACTCAATGACTGGGACTTAGACTGGGCTCGCTCGCTCGAAGAGTCTTAAG 1274
      |||
      |||
      |||
QY 1260 AAAATCTTCTAGTTCTCTCTTGCAGAGACTGGCGCGGAGCGAAGAGCAAGCGCGC 1319
      |||
      |||
      |||
Db 1275 AAAATCTTCTAGTTCTCTCTTGCAGAGACTGGCGCGGAGCGAAGAGCAAGCGCGC 1334
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      |||
      |||
QY 1320 TGCACAAAGCGGGCGCTGCTGGTGGAGTGGCATGTAACCGCGAGGGGCTTCTGTGG 1379
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      |||
      |||
Db 1335 TGCACAAAGCGGGCGCTTGGTGGAGTGGCATGTAACCGCGAGGGGCTTCTGTGG 1394
      |||
      |||
      |||
QY 1380 TTGGCTGCTCAGAGAGAGCGGCGAGCAACAGCACCCTGCAGCAACCGCGCAACTGC 1439
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      |||
      |||
Db 1395 TTGGCTGCTCAGAGAGAGCGGCGAGCAACAGCACCCTGCAGCAACCGCGCAACTGC 1454
      |||
      |||
      |||
QY 1440 TGGCAGGACACCGCTGACAGAGCGGGTTGATGACCGAGCTGAGTGAAGAAACGTCTCC 1499
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      |||
      |||
Db 1455 TGGCAGGACACCGCTGACAGAGCGGGTTGATGACCGAGCTGAGTGAAGAAACGTCTCC 1514
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      |||
      |||
QY 1500 GAGAGGGAGAGAGATCATGTACGCCCGGAAGTAGAGACTGTCAGTCGCTTGGGT 1559
      |||
      |||
      |||
Db 1515 GAGAGGGAGAGAGATCATGTACGCCCGGAAGTAGAGACTGTCAGTCGCTTGGGT 1574
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      |||
      |||
QY 1560 TTGGCCCGAGCCATGATCTCCGAATCTGTTGGGCATCCAGCATACGCCAATGTGACA 1619
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      |||
      |||
Db 1575 TTGGCCCGAGCCATGATCTCCGAATCTGTTGGGCATCCAGCATACGCCAATGTGACA 1634
      |||
      |||
      |||
QY 1620 ACAATCAGCCCTGGGCAACACAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1679
      |||
      |||
      |||
Db 1635 ACAATCAGCCCTGGGCAACACAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1694
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      |||
      |||
QY 1680 TGAGACACACTTAATGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1739
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      |||
Db 1695 TGAGACACACTTAATGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1754
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      |||
QY 1740 GGGCAGGAATGTACCAATTTTTCAGTGTGGACTGACAGCTTCTTTTGCACAAAGA 1799
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Db 1755 GGGCAGGAATGTACCAATTTTTCAGTGTGGACTGACAGCTTCTTTTGCACAAAGA 1814
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      |||
QY 1800 AGAGAGATTTAACAGTGTTCAAACCGGGGAGTGGCTGTGTTAAAGAAAGACATT 1859
      |||
      |||
      |||
Db 1815 AGAGAGATTTAACAGTGTTCAAACCGGGGAGTGGCTGTGTTAAAGAAAGACATT 1874
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      |||
QY 1860 AAATGCTTTAGACAGTGA 1878
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Db 1875 AAATGCTTTAGACAGTGA 1893
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; SEQ ID NO 9077
; LENGTH: 1917
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-644-873-9077

Query Match      97.6%; Score 1851; DB 25; Length 1917;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1873; Conservative 2; Mismatches 2; Indels 2; Gaps 2;

QY 1 GCCAATCTCCGAGGCTGTGCTGCTGCGCCGGAGCGGAGCGGAGAGAGAGAGAGAGAGAG 60
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      |||
      |||
Db 16 GCCAATCTCCGAGGCGGC-GGTGCTGCGCCGGAGCGGAGCGGAGAGAGAGAGAGAGAGAG 74
      |||
      |||
      |||
QY 61 CAGCGGGAGCGGAGGCGGGGCGGATGAGAGCTCCGGAGCGGAGCGGAGCGGAGCGGAGCGG 120
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      |||
      |||
Db 75 CAGCGGGAGCGGAGGCGGGGCGGATGAGAGCTCCGGAGCGGAGCGGAGCGGAGCGGAGCGG 134
      |||
      |||
      |||
QY 121 AGCTACGACCTGCTCTCCGCGGAGAGAGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 180
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      |||
      |||
Db 135 AGCTACGACCTGCTCTCCGCGGAGAGAGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAG 194
      |||
      |||
      |||
QY 181 GGTGTCAGCGGAGGAGAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
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      |||
Db 195 GGTGTCAGCGGAGGAGAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 254
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      |||
      |||
QY 241 GCGCCGGAGACTCCGGAGAGATGTGGGTCTAGGCACTGCGGCACTTTTGGGAGTTGTT 300
      |||
      |||
      |||
Db 255 GCGCCGGAGACTCCGGAGAGATGTGGGTCTAGGCACTGCGGCACTTTTGGGAGTTGTT 314
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      |||
      |||
QY 301 CTTCCTTTCAGAGCTTTGGGCTGCAATTCAGTGTACCACTGTGAAGATTCACAGT-GA 359
      |||
      |||
      |||
Db 315 CTTCCTTTCAGAGCTTTGGGCTGCAATTCAGTGTACCACTGTGAAGATTCACAGTGA 374
      |||
      |||
      |||
QY 360 ACAAGCACTGCTCTCCCGGAGTTCATGTAATTCAGAGTGAAGTGAAGTGAAGTGAAGT 419
      |||
      |||
      |||
Db 375 ACAAGCACTGCTCTCCCGGAGTTCATGTAATTCAGAGTGAAGTGAAGTGAAGTGAAGT 434
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      |||
      |||
QY 420 GTCGAAGAAGATGATGAGAGCAAGAGCGGAGATCATGTACCGCAAGTCTGTGATCAT 479
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      |||
Db 435 GTCGAAGAAGATGATGAGAGCAAGAGCGGAGATCATGTACCGCAAGTCTGTGATCAT 494
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      |||
      |||
QY 480 CAGCGGCTCTGTATGAGCTCTGCGGGTACCAAGTCTTCTGCTCCAGGAGAACTGA 539
      |||
      |||
      |||
Db 495 CAGCGGCTCTGTATGAGCTCTGCGGGTACCAAGTCTTCTGCTCCAGGAGAACTGA 554
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      |||
      |||
QY 540 ACTCAGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 599
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      |||
      |||
Db 555 ACTCAGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 614
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      |||
QY 600 GGGGAAGTTCTGCTCGGCTCAGGCGAGGCTCCGACCAACATCTGTTCTCAAT 659
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      |||
      |||
Db 615 GGGGAAGTTCTGCTCGGCTCAGGCGAGGCTCCGACCAACATCTGTTCTCAAT 674
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      |||
QY 660 TAGCCCTCTTCTGCGGACACTGCTGAAGCTGAAGAGATGCGACCCCTCTGCAATT 719
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      |||
Db 675 TAGCCCTCTTCTGCGGACACTGCTGAAGCTGAAGAGATGCGACCCCTCTGCAATT 734
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      |||
      |||
QY 720 CTTCAGGCTCTGCGGCGGCAACCGCCACCTCCGAGAGATTTCTTGTGGTGTCTTT 779
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      |||
      |||
Db 735 CTTCAGGCTCTGCGGCGGCAACCGCCACCTCCGAGAGATTTCTTGTGGTGTCTTT 794
      |||
      |||
      |||
QY 780 TATTCGTGGTAGGAGGAGGAGTCCGTTCTCTTTGTTGCTGTCGAATTAATGAAGA 839
      |||
      |||
      |||
Db 795 TATTCGTGGTAGGAGGAGGAGTCCGTTCTCTTTGTTGCTGTCGAATTAATGAAGA 854
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      |||
      |||
QY 840 GCTCGGTAAGCAATTCTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 899
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      |||
Db 855 GCTCGGTAAGCAATTCTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 914
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      |||
      |||
QY 900 AAGGAGGTGAGTGAAGATTCACCCCATGCTGTGTAACCGGAGTGAAGGAGCGAGCTGG 959
      |||
      |||
      |||
Db 915 AAGGAGGTGAGTGAAGATTCACCCCATGCTGTGTAACCGGAGTGAAGGAGCGAGCTGG 974
      |||
      |||
      |||

```

```

RESULT 15
US-09-644-873-9077
; Sequence 9077, Application US/09644873
; GENERAL INFORMATION:
; APPLICANT: Silos-Santlago, Immaculada
; APPLICANT: Holtzman, Douglas A.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.1169-001
; CURRENT APPLICATION NUMBER: US/09/644,873
; PRIOR FILING DATE: 2000-08-28
; PRIOR APPLICATION NUMBER: 60/151,064
; NUMBER OF SEQ ID NOS: 11286
; SOFTWARE: FastSeq for Windows Version 4.0

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GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 7, 2002, 10:10:48 : Search time 52.9982 Seconds  
(without alignments)  
3937.596 Million cell updates/sec

Title: US-09-970-966-214

Perfect score: 1897  
Sequence: 1 gccacaccgagagctctg.....aaaaaaaaaaaaaaaa 1897

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 193892 seqs, 55004114 residues

Total number of hits satisfying chosen parameters: 387784

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending\_Patents\_NA\_New:\*  
1: /cgn2\_6/pdata1/pna/PCT\_NEW\_COMB.seq:\*  
2: /cgn2\_6/pdata1/pna/US06\_NEW\_COMB.seq:\*  
3: /cgn2\_6/pdata1/pna/US07\_NEW\_COMB.seq:\*  
4: /cgn2\_6/pdata1/pna/US08\_NEW\_COMB.seq:\*  
5: /cgn2\_6/pdata1/pna/US09\_NEW\_COMB.seq:\*  
6: /cgn2\_6/pdata1/pna/US10\_NEW\_COMB.seq:\*  
7: /cgn2\_6/pdata1/pna/US60\_NEW\_COMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1523.2	80.3	1524	6	US-10-230-437-15
2	46	2.4	2196	6	US-10-270-333-38
3	46	2.4	6472	6	US-10-270-333-37
4	45	2.4	667	7	US-60-416-172-67
5	44.6	2.4	4563	6	US-10-125-923A-311
6	42	2.2	4526	6	US-10-240-965-86
7	41.8	2.2	1734	6	US-10-230-437-155
8	41.8	2.2	1734	6	US-10-125-923A-201
9	40.8	2.2	1209	6	US-10-274-177-9
10	40.2	2.1	836	6	US-10-240-965-254
11	40.2	2.1	3901	6	US-10-240-425-1425
12	39.8	2.1	1524	6	US-10-230-437-15
13	39.2	2.1	5715	6	US-10-240-425-357
14	39	2.1	1901	6	US-10-145-087A-18
15	39	2.1	1901	6	US-10-143-031A-18
16	39	2.1	1901	6	US-10-145-092A-18
17	39	2.1	1901	6	US-10-162-522A-18
18	39	2.1	1901	6	US-10-165-038A-18
19	39	2.1	1901	6	US-10-165-353-18
20	39	2.1	1901	6	US-10-170-481A-18
21	39	2.1	1901	6	US-10-172-039A-18
22	39	2.1	1901	6	US-10-143-016A-18
23	39	2.1	1901	6	US-10-145-088A-18
24	39	2.1	1901	6	US-10-145-129A-18
25	39	2.1	1901	6	US-10-125-923A-47
26	39	2.1	1901	6	US-10-165-353A-18

27	38.6	2.0	1032	1	PCT-US02-12342-2	Sequence 2, Appl1
28	38.6	2.0	1149	1	PCT-US02-12342-1	Sequence 1, Appl1
29	38.6	2.0	1376	1	PCT-US02-12342-4	Sequence 4, Appl1
30	38.6	2.0	8906	6	US-10-240-851-85	Sequence 85, Appl1
31	38.4	2.0	610	6	US-10-264-237-199	Sequence 199, Appl
32	38.4	2.0	4098	6	US-10-240-425-1428	Sequence 1428, Ap
33	38.2	2.0	9889	6	US-10-270-333-196	Sequence 98, Appl
34	38	2.0	1251	6	US-10-270-333-98	Sequence 97, Appl
35	38	2.0	9268	6	US-10-270-333-97	Sequence 82, Appl
36	37.6	2.0	2954	6	US-10-240-965-82	Sequence 161, App
37	37.4	2.0	4034	6	US-10-240-965-161	Sequence 115, App
38	37.4	2.0	5927	6	US-10-270-333-115	Sequence 73, Appl
39	36.6	1.9	3305	6	US-10-145-087A-73	Sequence 73, Appl
40	36.6	1.9	3305	6	US-10-143-031A-73	Sequence 73, Appl
41	36.6	1.9	3305	6	US-10-145-092A-73	Sequence 73, Appl
42	36.6	1.9	3305	6	US-10-162-522A-73	Sequence 73, Appl
43	36.6	1.9	3305	6	US-10-165-038A-73	Sequence 73, Appl
44	36.6	1.9	3305	6	US-10-165-353-73	Sequence 73, Appl
45	36.6	1.9	3305	6	US-10-170-481A-73	Sequence 73, Appl

## ALIGNMENTS

RESULT 1  
US-10-230-437-15  
Sequence 15, Application US/10230437  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Desnoyers, Luc  
APPLICANT: Geriltsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Philippe F.  
APPLICANT: Watanabe, Colin L.  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3530PIC94  
CURRENT APPLICATION NUMBER: US/10/230,437  
CURRENT FILING DATE: 2002-08-28  
PRIOR APPLICATION NUMBER: 10/119,480  
PRIOR FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 60/059113  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/062287  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/063549  
PRIOR FILING DATE: 1997-10-28  
PRIOR APPLICATION NUMBER: 60/064103  
PRIOR FILING DATE: 1997-10-31  
PRIOR APPLICATION NUMBER: 60/069873  
PRIOR FILING DATE: 1997-12-17  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/079294  
PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079788  
PRIOR FILING DATE: 1998-03-27  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 246  
SEQ ID NO 15  
LENGTH: 1524  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-230-437-15  
Query Match 80.3%; Score 1523.2; DB 6; Length 1524;

		Best Local Similarity 99.9%; Pred. No. 0;				Matches 1522; Conservative 2; Mismatches 0; Indels 0; Gaps 0.			
OY	140	GGGCGACGAGCGGGGGCCCCAGACGCTTCGGCAGCCACAGCCGCTGCAGCCGGGGCAGCC	199						
Db	1	GGGCGACGAGCGGGGGCCCCAGACGCTTCGGCAGCCACAGCCGCTGCAGCCGGGGCAGCC	60						
OY	200	TCCGCTGCTGTCGCGCCCTCCCTGATGCGCGCTGGCGCTCTCCGGGCCCCGGGACATCCGGGACA	259						
Db	61	TCCGCTGCTGTCGCGCTCCCTCTGATGCGCGCTGGCGCTCTCCGGGCCCCGGGACATCCGGGACA	120						
OY	260	ATGTGGGTCCTATGGCATGCGCGCAACTTTTTCGGGATTTCTTGCTTCAGAGCTTTGGG	319						
Db	121	ATGTGGGTCCTATGGCATGCGCGCAACTTTTTCGGGATTTCTTGCTTCAGAGCTTTGGG	180						
OY	320	CTGCAAAATCCAGTGTACCAAGTGTGAAGAATTCAGCTGAGAACAGAGCTGCTCTCCGCC	379						
Db	181	CTGCAAAATCCAGTGTACCAAGTGTGAAGAATTCAGCTGAGAACAGAGCTGCTCTCCGCC	240						
OY	380	GAGTTCATTTGTGAATTTGACGCGGTGAACGTTTCAAGACATGTGTACAGAAAGAAATGATGGAG	439						
Db	241	GAGTTCATTTGTGAATTTGACGCGGTGAACGTTTCAAGACATGTGTACAGAAAGAAATGATGGAG	300						
OY	440	CAAAATGCCGGGATATGTACCGCAGAGTCCTTGATCATCTACGGGCGCTGTCTCATCGCC	499						
Db	301	CAAAATGCCGGGATATGTACCGCAGAGTCCTTGATCATCTACGGGCGCTGTCTCATCGCC	360						
OY	500	TCCTGCGGGGTACAGTCTCTTGTCTGCCAGGAAAACTGAACTCAGTTTGCATCAGCTGC	559						
Db	361	TCCTGCGGGGTACCAATCTCTTGTCTGCCAGGAAAACTGAACTCAGTTTGCATCAGCTGC	420						
OY	560	TGCACACCCCTCTTTGTGAAGGGGCCAAGGCCCAAGAAAAGGGGAAGTTCTGCTCGGCC	619						
Db	421	TGCACACCCCTCTTTGTGAAGGGGCCAAGGCCCAAGAAAAGGGGAAGTTCTGCTCGGCC	480						
OY	620	CTCAGGCGCAGGGCTCCGACACCAATCCGTTCTCTCAAAATTAAGCCCTCTTCTCGGACAC	679						
Db	481	CTCAGGCGCAGGGCTCCGACACCAATCCGTTCTCTCAAAATTAAGCCCTCTTCTCGGACAC	540						
OY	680	TGCTGAAGCTGAAGAGATGCCACCCCTCTGCAATTTGTTCTTCCAGCCCTCGCCCCAA	739						
Db	541	TGCTGAAGCTGAAGAGATGCCACCCCTCTGCAATTTGTTCTTCCAGCCCTCGCCCCAA	600						
OY	740	CCCCCACCCTCCCTAGTGAATTTCTTCTGGGTCCTTTTATCTCGGGTAAGGACGGG	799						
Db	601	CCCCCACCCTCCCTAGTGAATTTCTTCTGGGTCCTTTTATCTCGGGTAAGGACGGG	660						
OY	800	AGTCCGCTGTTCTTTTGTCTCTGCAAAATATGAAGAAGCTCGGTTAAAGCATTTGTGA	859						
Db	661	AGTCCGCTGTTCTTTTGTCTCTGCAAAATATGAAGAAGCTCGGTTAAAGCATTTGTGA	720						
OY	860	TAAATTCAGCTGACGAAATTTTCAGTATGTACTTGAAGAAAGAGAGTGGAGTGAAGTT	919						
Db	721	TAAATTCAGCTGACGAAATTTTCAGTATGTACTTGAAGAAAGAGAGTGGAGTGAAGTT	780						
OY	920	CACCCCCCATGTCTGTGTAAACCGGAGTCAAGGCCAGGCTGGCAGAGTCWGTCTTAGAAGT	979						
Db	781	CACCCCCCATGTCTGTGTAAACCGGAGTCAAGGCCAGGCTGGCAGAGTCWGTCTTAGAAGT	840						
OY	980	CACGTAGGAGGAGCATCTGCTTTTGTAAAGCCCTCCAGTGTCCATTCATCCCTCGATGGGG	1039						
Db	841	CACGTAGGAGGAGCATCTGCTTTTGTAAAGCCCTCCAGTGTCCATTCATCCCTCGATGGGG	900						
OY	1040	GCATAGTTTGACATGCAAGAGTGAAGAGTACCTTTTCTTAGGAGCTGGAGGGCCAGTTCCC	1099						
Db	901	GCATAGTTTGACATGCAAGAGTGAAGAGTACCTTTTCTTAGGAGCTGGAGGGCCAGTTCCC	960						
OY	1100	ACTCAAGAGCTCCCTCGCTTGACATTTCAAACTTCATGCTCTCTGAAAAACAATCTCTGCAGC	1159						
Db	961	ACTCAAGAGCTCCCTCGCTTGACATTTCAAACTTCATGCTCTCTGAAAAACAATCTCTGCAGC	1020						
OY	1160	AGAAATTCGCTGGTTTCGGCCCTGAGTGTGGGCTCTAGTACTGAGAGCTCAATGACTGGGA	1219						

Db	1021	AGAAATTGGCTGGTTTCCGCGCTCAGTTGGGGCTCTAAGTCACTGAGACATCAATGACTGGGA	1080
Qy	1220	CTTAGACTGGGGGCGTGGGCGTGGCTGTGAAGAAAGCTTAGAAAAATCTTCTCAAGTTCTCT	1279
Db	1081	CTTAGACTGGGGGCTGGGCGTGGCTGTGAAGAAAGCTTAGAAAAATCTTCTCAAGTTCTCT	1140
Qy	1280	TGCAGAGAGACTGGGGCGGGGACCGAAGACACGGGGCGCTGCACAAAGCGGGCGGTGC	1339
Db	1141	TGCAGAGAGACTGGGGCGGGGACCGAAGACACGGGGCGCTGCACAAAGCGGGCGGTGC	1200
Qy	1340	GGTGGTGGAGTGGCGCATGTACGGGAGGGCGCTTCTGTGTGGTTGGGCTGCTGCAGGACAG	1399
Db	1201	GGTGGTGGAGTGGCGCATGTACGGGAGGGCGCTTCTGTGTGGCTGTGTGAGGAGAG	1260
Qy	1400	GGCGGACACAGCACTGTGCAGAAACCGCGCAAACTCTCGAGAGACACCTGTACAG	1459
Db	1261	GGCGGACACAGCACTGTGCAGAAACCGCGCAAACTCTCGAGAGACACCTGTACAG	1320
Qy	1460	GAGCGGGTTGATGACGAGCTGAGGTGAAAAACGTCTCCGAAAGGGGAGGAGATAT	1519
Db	1321	GAGCGGGTTGATGACGAGCTGAGGTGAAAAACGTCTCCGAAAGGGGAGGAGATAT	1380
Qy	1520	GTAGCGCCGGAAAGAGAACTCGCCAGAGTGTGCTTGGGTTTGGCGGACCATGATCTCT	1579
Db	1381	GTAGCGCCGGAAAGAGAACTCGCCAGAGTGTGCTTGGGTTTGGCGGACCATGATCTCT	1440
Qy	1580	CCGAATCTGTTGGGCGATCCAGCATAGGCGCAATGTCCACACAAATCAGCCCTGGGCGAC	1639
Db	1441	CCGAATCTGTTGGGCGATCCAGCATAGGCGCAATGTCCACACAAATCAGCCCTGGGCGAC	1500
Qy	1640	ACGAGCAGAGGAGGAGACAGAGA 1663	
Db	1501	ACGAGCAGAGGAGGAGACAGAGA 1524	

```

RESULT 2
US-10-270-333-38/c
: Sequence 38, Application US/10270333
: GENERAL INFORMATION:
: APPLICANT: Craychik, Anibal
: TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
: TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR, PROTEINS, AND USES
: TITLE OF INVENTION: THEREOF AS INSECTICIDAL TARGETS
: FILE REFERENCE: CL000733CON
: CURRENT APPLICATION NUMBER: US/10/270.333
: CURRENT FILING DATE: 2002-10-15
: PRIOR APPLICATION NUMBER: 60/168,677
: PRIOR FILING DATE: 1999-12-03
: PRIOR APPLICATION NUMBER: 60/175,691
: PRIOR FILING DATE: 2000-01-12
: PRIOR APPLICATION NUMBER: 60/191,638
: PRIOR FILING DATE: 2000-03-23
: NUMBER OF SEQ ID NOS: 198
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 38
: LENGTH: 2196
: TYPE: DNA
: ORGANISM: Drosophila
US-10-270-333-38

Query Match          2.4%, Score 46; DB 6; Length 2196;
Best Local Similarity 52.6%; Prid. No. 0.019;
Matches 100; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

QY 1333 GCCTCTGCTGGTGGAGTGCACATGTACGGCGAGCGCTTCGTCGNGTGTGGCGTCTCA 1392
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1888 GCCCTGCCCTGGATGAGCTCCCTCTGATGTAGTGTGGCGATGGTGTGATGTGGCCCTT 1829

QY 1393 GCGCAGAGCGCGCAGCAGCACACTTCACAGAACACCCGCCGAACACTGTGCGAGCACC 1452
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1828 GCGCCAGACAACTGACGACGACGACGCCGCCGAAGACCCGCTCGAATAATTGGAGGACATCAGT 1769

QY 1453 TGTACAGGAGCGCGGTGATGATGACCGAGCTGAGGTAGCAAAAACGCTTCGCCGAGAGGGGACGA 1512

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Db      38 CTTGGGCGCTGGGCTTAATTGAGGTCCAGGAGGTCCAGTCTGCGGTGAGAGGGGG 97
Qy      75 AGCGGGGCGATGAGAGCTCCGCGAGCGGACACTGCGCTCTCAACTACGACCTCG 134
Db      98 GGGCGGAGGGGGGCTGTCTCCAGAGGGGGGCTCCCGGGGTCTCCGAAAGCGCGGACCA 157
Qy      135 TCTCCGCGGAGCAGAGCGGGGGCCAGCAGCTCGGAGCCACAGCCGCTGACCGGGG 194
Db      158 GGGCGGATTCACCACTCTCGCGCTGAGCGCGTGGCGGGCCAGCGCGCTGCTGCA 217
Qy      195 CAGGCTCGGCTGCTGTC 211
Db      218 CCGGACCGGAGCGGCC 234

RESULT 11
US-10-240-425-1425/c
; Sequence 1425, Application US/10240425
; GENERAL INFORMATION:
; APPLICANT: Williams, Amanda
; APPLICANT: Boland, Joseph F.
; APPLICANT: Lord, Reginald V.
; APPLICANT: Alvarez, Chris
; APPLICANT: Metzel, Jon C.
; APPLICANT: Scherf, Uwe
; APPLICANT: Vockley, Joseph G.
; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue
; FILE REFERENCE: 44921-5026
; CURRENT APPLICATION NUMBER: US/10/240,425
; PRIOR FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/US01/09847
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/193,446
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 1588
; SOFTWARE: Patentlin Ver. 2.1
; SEQ ID NO 1425
; LENGTH: 3901
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. U25997
US-10-240-425-1425

Query Match
Best Local Similarity 2.1%; Score 40.2; DB 6; Length 3901;
Matches 72; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy      138 CCGCGGAGCAGGCGGGGCCAGAGCCTCGGAGCCGACAGCCGCTGCGAGCGGGGAG 197
Db      125 CTGCTGCTGCGACCGGTGCTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 66
Qy      198 CTTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 257
Db      65 CCACCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 6
Qy      258 GAATG 262
Db      5 AACTG 1

RESULT 12
US-10-230-437-15/c
; Sequence 15, Application US/10230437
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.

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; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin I.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C94
; CURRENT APPLICATION NUMBER: US/10/230,437
; PRIOR FILING DATE: 2002-08-28
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 15
; LENGTH: 1524
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-230-437-15

Query Match
Best Local Similarity 2.1%; Score 39.8; DB 6; Length 1524;
Matches 56; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

Qy      143 GCAGCAGCGCGGGCCGAGAGCTCGGAGCCAGCAGCCGCTGCGAGCGGGGAGCCTCC 202
Db      86 GCATCAGAGAGGAGCGAGCAGCGAGCGAGCGCGGCTGCGAGCGGCTGTGCTGCCGAG 27
Qy      203 GCTGCTGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 225
Db      26 GCTGCTGCGGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 4

RESULT 13
US-10-240-425-357
; Sequence 357, Application US/10240425
; GENERAL INFORMATION:
; APPLICANT: Williams, Amanda
; APPLICANT: Boland, Joseph F.
; APPLICANT: Lord, Reginald V.
; APPLICANT: Alvarez, Chris
; APPLICANT: Metzel, Jon C.
; APPLICANT: Scherf, Uwe
; APPLICANT: Vockley, Joseph G.
; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue
; FILE REFERENCE: 44921-5026
; CURRENT APPLICATION NUMBER: US/10/240,425
; PRIOR FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/US01/09847
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/193,446
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 1588
; SOFTWARE: Patentlin Ver. 2.1
; SEQ ID NO 357
; LENGTH: 5715

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Fri Nov 8 18:57:09 2002

53

Query Match	2.1%	Score 39;	DB 6;	Length 1901;
Best Local Similarity	56.4%;	Pred. No. 1;		
Matches 92; Conservative	0;	Mismatches 70;	Indels 1;	Gaps 1

Qy	57	CCCCAGCCGGGAGACCCCGAGCGCGGGGAGATGACAGCTCCGAGACGGCAGCTGGGGCTTC	116
Db	9	CCCGGCGCGGGGCGCCGGAACCGCGGAGCCACCGCCATGGGGGCGCTGCTCTCGGAGAGCCTGC	68
Qy	117	TCCTAAGCTAGCAGCGCTGCTCCGCGGGGACAGCGCGGGGCCCGACAGAGCTCGGAGGCCA	176
Db	69	TCCCTGCTCAGCTACGCGCTCCTCCCTCTGCGGCTCTGCCCCCTGCACTCTGTGCACTG	127
Qy	177	CAGCGCGTCAAGCCGGGGGCAAGCTCTCGCGTGTGCGCTCTCTC	219
Db	128	CTGCGCCCGCCAGCCGCAACTCCACCGTAGACCGCGCTCATATCTTC	170

Search completed: November 7, 2002, 18:02:24  
Job time : 85.9982 secs



GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: November 7, 2002, 09:52:52 ; Search time 2541.39 Seconds

(without alignments)  
12088.985 Million cell updates/sec

Title: US-09-970-966-214

Perfect score: 1897

Sequence: 1 gccactccgagagctctg.....aaaaaaaaaaaaaaaa 1897

Scoring table: IDENTITY\_MUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues 32308132

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :  
EST:  
1: em\_estba:\*  
2: em\_estlm:\*  
3: em\_estln:\*  
4: em\_estlm:\*  
5: em\_estov:\*  
6: em\_estov:\*  
7: em\_estro:\*  
8: em\_estro:\*  
9: em\_estl:\*  
10: gb\_est2:\*  
11: gb\_hic:\*  
12: gb\_est3:\*  
13: gb\_est4:\*  
14: gb\_est5:\*  
15: em\_estlm:\*  
16: em\_estom:\*  
17: gb\_gss:\*  
18: em\_gss\_hum:\*  
19: em\_gss\_inv:\*  
20: em\_gss\_pln:\*  
21: em\_gss\_vrt:\*  
22: em\_gss\_fun:\*  
23: em\_gss\_mam:\*  
24: em\_gss\_mus:\*  
25: em\_gss\_other:\*  
26: em\_gss\_pro:\*  
27: em\_gss\_rod:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	798	42.1	888	14	B0689771
2	764.8	40.3	814	9	AL567376
3	741.2	39.1	920	9	AL538562
4	709.2	37.4	987	14	B068420
5	700.8	36.9	821	12	BG752229
6	698.8	36.8	702	14	BQ06545

7	678.8	35.8	1490	11	AK012406
8	672.4	35.4	678	9	AI936826
9	672.4	35.4	696	13	BM547680
10	664.2	35.0	747	13	BI917149
11	658.8	34.7	799	10	BE271770
12	657.6	34.7	676	10	BE385990
13	651.4	34.3	704	13	BI919074
14	651.2	34.3	690	10	AM149665
15	645	34.0	698	13	BI554034
16	635	33.5	707	13	BI913989
17	630.4	33.2	690	13	BI669845
18	626.8	33.0	649	10	AM590950
19	624.4	32.9	627	13	BM669397
20	611.2	32.2	616	9	AI990500
21	610.4	32.2	696	12	BF439382
22	609.2	32.1	800	12	BE736301
23	608.4	32.1	645	12	BF432379
24	605.8	31.9	704	13	BI823714
25	602	31.7	743	10	BE395797
26	599.4	31.6	879	14	B0689033
27	591.2	31.2	654	12	BE746601
28	589	31.0	843	12	BF125134
29	587.4	31.0	591	9	AI884686
30	577.4	30.4	759	12	BF126050
31	569	30.0	948	14	B0882838
32	566.4	29.9	1010	12	BF345141
33	560.4	29.5	578	9	AI742092
34	558.8	29.5	699	10	BE395581
35	555.4	29.3	571	14	BM709964
36	550.8	29.0	670	12	BG753617
37	549.4	29.0	551	12	BE858216
38	538.4	28.4	540	12	BF396693
39	537	28.3	537	12	BF594242
40	533.8	28.1	538	13	BM667957
41	532.2	28.1	537	9	AI018769
42	530.8	28.0	534	10	BE350014
43	526.8	27.8	561	10	AM150789
44	526.8	27.8	589	9	AI859538
45	525.4	27.7	527	10	AM338938

## ALIGNMENTS

RESULT 1  
LOCUS B0689771 888 bp mRNA linear EST 15-JUL-2002  
DEFINITION AGENCOURT\_8344092 NIH\_MGC\_110 Homo sapiens CDNA clone IMAGE:6248684  
ACCESSION B0689771  
VERSION B0689771  
KEYWORDS 5', mRNA sequence.  
SOURCE B0689771.1 GI:21815087  
ORGANISM EST.  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 888)  
AUTHORS NIH-MGC http://mgc.ncl.nih.gov/  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cgaabs-r@mail.nih.gov  
Tissue Procurement: ATCC  
CDNA Library Preparation: Rubin Laboratory  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
http://image.llnl.gov  
Plate: L10M2388 row: 0 column: 21  
High quality sequence stop: 655.  
Location/Qualifiers  
1. 888

FEATURES  
Source

/organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone\_image="6248684"  
 /clone\_id="NIH\_MGC\_110"  
 /tissue\_type="ductal carcinoma, cell line"  
 /lab\_host="DH10B (phage-resistant)"  
 /note="Organ: pancreas; Vector: pCMV7; Site: 1: XhoI;  
 Site: 2: EcoRI; cDNA made by oligo-dT priming.  
 Directionally cloned into EcoRI/XhoI sites using the  
 following 5' adaptor: GGCACAG(G). Library constructed by  
 Ling Hong in the laboratory of Gerald M. Rubin (University  
 of California, Berkeley) using ZAP-cDNA synthesis kit  
 (Stratagene) and Superscript II RT (Life Technologies).  
 Note: this is a NIH\_MGC library."

BASE COUNT 217 a 219 c 264 g 187 t 1 others

ORIGIN

Query Match 42.1%; Score 798; DB 14; Length 888;

Best Local Similarity 96.5%; Pred. No. 6.7e-134;  
 Matches 856; Conservative 2; Mismatches 23; Indels 6; Gaps 4;

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OY 850 GCATTCTGAATTAATTCAGCTGACTGAAATTTTCACTATGCTTGAAGAAAGAGCTGG 909
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DB 1 GCATTCTGAATTAATTCAGCTGACTGAAATTTTCACTATGCTTGAAGAAAGAGCTGG 60
OY 910 AGTGAAGTTCACCCCATGCTGTGTACCGGAGTCAAGGCGAGCTGGCAGAGTCMGT 969
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 61 AGTGAAGTTCACCCCATGCTGTGTACCGGAGTCAAGGCGAGCTGGCAGAGTCMGT 120
OY 970 CCTTGAAGTCACTAGAGTGGGCTATGCTTTTGTAAAGCCTCCAGTGTCCATTCATC 1029
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 121 CCTTGAAGTCACTAGAGTGGGCTATGCTTTTGTAAAGCCTCCAGTGTCCATTCATC 180
OY 1030 CCTGATGGGGGATAGTTTGAAGTCAAGTGAAGTACGTTTCTTAAAGGCTGGAG 1089
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 181 CCTGATGGGGGATAGTTTGAAGTCAAGTGAAGTACGTTTCTTAAAGGCTGGAG 240
OY 1090 GCCAGTTCACACTCAAGGCTCCCTGCTTGAATTCATTCATGCTCTGTAAGAACAT 1149
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 241 GCCAGTTCACACTCAAGGCTCCCTGCTTGAATTCATTCATGCTCTGTAAGAACAT 300
OY 1150 TCTCTGACAGAGATTTGGCTGTTTGGGCTGAGTGGGCTCTAGTACTGACACTCA 1209
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 301 TCTCTGACAGAGATTTGGCTGTTTGGGCTGAGTGGGCTCTAGTACTGACACTCA 360
OY 1210 ATGACGGGACTTACGCTGGGCTGGGCTGCTGTAAGAGTCTTAAAGAAATCTTCT 1269
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 361 ATGACGGGACTTACGCTGGGCTGGGCTGCTGTAAGAGTCTTAAAGAAATCTTCT 420
OY 1270 CAGTTCTCTTGCAGAGACTGGCGCGGGAGCGCAAGACAGCGGCGCTGCACAAAG 1329
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 421 CAGTTCTCTTGCAGAGACTGGCGCGGGAGCGCAAGACAGCGGCGCTGCACAAAG 480
OY 1330 GGGCGCTGTCGGTGTGAGTGTGATGCGCATGACGCGAGCGCTTCTGCTGTGGCTGCT 1389
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 481 GGGCGCTGTCGGTGTGAGTGTGATGCGCATGACGCGAGCGCTTCTGCTGTGGCTGCT 540
OY 1390 GCAGCGACAGGGGGGAGCAGACACTGCACGAAACCCGCCGAAACTGCTGGAGAGCA 1449
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 541 GCAGCGACAGGGGGGAGCAGACACTGCACGAAACCCGCCGAAACTGCTGGAGAGCA 600
OY 1450 CCGTGTACAGAGCGGGTGTATGACCGAGCTGAGTGAAGAAACGCTCTCGAGAAAGGGG 1509
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 601 CCGTGTACAGAGCGGGTGTATGACCGAGCTGAGTGAAGAAACGCTCTCGAGAAAGGGG 660
OY 1510 GGAGGATCATGTACGCCCGGAAAGTAGAGCTGCTCCAGTGTGT-GCTTGGGTTGGCCGCA 1568
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 661 GGAGGATCATGTACGCCCGGAAAGTAGAGCTGCTCCAGTGTGTGGGTTGGCCGCA 720
OY 1569 GGCATATCTCTCGAATCTGTGTGGGATTCACAGATACGGCCCAATGCAACAATCAGC 1628
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 721 GGCATATCTCTCGAATCTGTGTGGGATTCACAGATACGGCCCAATGCTCAACAATCAGC 780

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OY 1629 CCTGGCAGACAGACGACA-GGAGGAGAGACAGAGAAAGAAACACAG-CATGAGAAC 1686
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 781 CCTGGCAGACAGACGACAAGAGAGAGAGACAGAGAAAGAAACCCGCTTGGAGAC 840
OY 1687 ACAGTAATGAA--TAAACCATTAATATTTTACCCCTGTGTTCT 1730
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 841 ACAGTAATGAAATTAACCATTAATATTTTAAACCCCTGTGTTCT 887

```

#### RESULT 2

AL567376/c

LOCUS

DEFINITION

AL567376 LTI\_FL013\_FBRn1 Homo sapiens cDNA clone CS0DF024Y004 3

prime, mRNA sequence.

AL567376

VERSION

AL567376.1 GI:12920672

KEYWORDS

EST.

SOURCE

ORGANISM

Homo sapiens

human.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 814)

Li, W.B., Gruber, C., Jesse, J. and Polayes, D.

Full-length cDNA libraries and normalization

Unpublished (2001)

CONTACT: Genoscope

Genoscope - Centre National de Sequencage

Bp 191 91006 EVRY cedex - France

Email: sequef@genoscope.cns.fr. Web : www.genoscope.cns.fr.

Location/Qualifiers

1. 814

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="CS0DF024Y004"

/clone\_id="LTI\_FL013\_FBRn1"

/dev\_stage="pooled tissue from post conception fetuses (20

week, 24 week and 26 week)"

/lab\_host="DH10B"

/note="Organ: Fetal brain; Vector: pCMVSPORT 6; 1st strand

cDNA was primed with a NotI-oligo(dT) primer. Five prime

end enriched, double-stranded cDNA was digested with Not I

and cloned into the Not I and Eco RV sites of the

PCMVSPORT 6 vector. Library was constructed by Life

Technologies. Contact : Feng Liang Life Technologies, a

division of Invitrogen 9800 Medical Center Drive Rockville

, Maryland 20850, USA Fax : (1) 301 610 8371 Email :

liang@lifetech.com URL :

http://fulllength.invitrogen.com"

BASE COUNT 161 a 228 c 210 g 205 t 10 others

ORIGIN

Query Match 40.3%; Score 764.8; DB 9; Length 814;

Best Local Similarity 97.4%; Pred. No. 6.4e-128;

Matches 788; Conservative 7; Mismatches 12; Indels 2; Gaps 2;

```

OY 915 AAGTCAACCCCATGCTGTGTGAACCGAGTCAAGGCGAGCTGCGAGAGCTGCTCTTA 974
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 809 AAGTCAACCCCATGCTGTGTGAACCGAGTCAAGGCGAGCTGCGAGAGCTGCTCTTA 751
OY 975 GAAGTCACTGAGTGGGCACTGCTTTTGTAAAGCTCCAGTGCATTCAT-CCCTG 1033
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 750 GAAGTCACTGAGTGGGCACTGCTTTTGTAAAGCTCCAGTGCATTCATTCATTCCTG 691
OY 1034 ATGGGGGATAGTTTGAAGTGCAGAGTGAAGTGAAGTGTCTTAAAGGCTGCAATTCATTCCTG 1093
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 690 ATGGGGGATAGTTTGAAGTGCAGAGTGAAGTGAAGTGTCTTAAAGGCTGCAATTCCTG 631
OY 1094 GTTCCACTCAAGGCTCCCTGCTTGAATTCATTCATTCATTCCTGTAAGAAACATTTCTC 1153
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 630 GTTCCACTCAAGGCTCCCTGCTTGAATTCATTCATTCATTCCTGTAAGAAACATTTCTC 571
OY 1154 TGCAGCAGAAATTTGGCTGTTCGCCCTGAGTTGGGCTCTAGTGAATCGAGATCAATGA 1213
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

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Db      892 GTGAGTGAATCA .905

RESULT 4
LOCUS   BO668420          987 bp    mRNA    linear    EST 15-JUL-2002
DEFINITION AGNCOURT_8301981 NIH_MGC_102 Homo sapiens cDNA clone IMAGE:6275121
          5', mRNA sequence.
ACCESSION BO668420
VERSION   BO668420.1 GI:21778667
KEYWORDS  EST.
SOURCE    human.
ORGANISM  Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 987)
AUTHORS   NIH-MGC http://mgc.ncl.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
           Email: cga@bs-remail.nih.gov
           Tissue Procurement: ATCC
           cDNA Library Preparation: Rubin Laboratory
           DNA Sequencing by: Agencourt Bioscience Corporation
           Clone distribution: MGC clone distribution information can be
           found through the I.M.A.G.E. Consortium/LLNL at:
           http://image.llnl.gov
           Plate: L1CM2457 row: m column: 10
           High quality sequence stop: 583.

FEATURES
Source    1..987
           /organism="Homo sapiens"
           /db_xref="taxon:9606"
           /clone_1ib="NIH_MGC_102"
           /lab_host="DH10B (phage-resistant)"
           /tissue_type="epidermoid carcinoma, cell line"
           /note="Organ: Salivary gland; Vector: pOTB7; Site_1: XhoI;
           Site_2: EcoRI; cDNA made by oligo-dT priming.
           Directionally cloned into EcoRI/XhoI sites using the
           following 5' adaptor: GGCACGAG(G). Library constructed
           by Ling Hong in the laboratory of Gerald M. Rubin
           (University of California, Berkeley) using ZAP-cDNA
           synthesis kit (Stratagene) and Superscript II RT (Life
           Technologies). Note: this is a NIH-MGC Library."

BASE COUNT 196 a 314 c 285 g 191 t 1 others
ORIGIN
Query Match 37.4%; Score 709.2; DB 14; Length 987;
Best Local Similarity 94.2%; Pred. No. 6.1e-118;
Matches 758; Conservative 0; Mismatches 44; Indels 3; Gaps 2;

QY 19 GGTGTCGCGCCGCGGAGCGGAGGAGGAGAGACCCGCGGAGCGGAGCGG 78
Db 11 GGTGTCGCGCCGCGGAGCGGAGGAGGAGAGACCCGCGGAGCGGAGCGG 70
QY 79 CGGGGAGTCAAGGCTCCGCGAGCGGAGCTCGCTCTTAAGCTAAGCGCTCTTC 138
Db 71 CGGGGAGTCAAGGCTCCGCGAGCGGAGCTCGCTCTTAAGCTAAGCGCTCTTC 130
QY 139 CGGGGAGAGAGCGGCGGCGGAGCGGAGCTCGGAGCGGAGCGGCGGCGGCGAG 198
Db 131 CGGGGAGAGAGCGGCGGCGGCGGAGCGGAGCTCGGAGCGGAGCGGCGGCGAG 190
QY 199 CTCGCGTCTGTGCTCTCTCTGATGCGCTTGCCTCTCCGCGCCCGGGAGACTCCG 258
Db 191 CTCGCGTCTGTGCTCTCTCTGATGCGCTTGCCTCTCCGCGCCCGGGAGACTCCG 250
QY 259 AATGTGGTCTAGAGGATCGCGGCAACTTTTTCGGATTTCTTCTCCAGGCTTTGC 318
Db 251 AATGTGGTCTAGAGGATCGCGGCAACTTTTTCGGATTTCTTCTCCAGGCTTTGC 310

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QY 319 GCTGCAATCCAGTGTCTACCACTGTGAGAAATTCACGTGAAACAGCACTGCTCTCC 378
Db 311 GCTGCAATCCAGTGTCTACCACTGTGAGAAATTCACGTGAAACAGCACTGCTCTCC 370
QY 379 CGAGTTTCAATTGATGATGAGCGTGAAGCTTCAAGCATGTCTCAAGAAAGTGTATGA 438
Db 371 CGAGTTTCAATTGATGATGAGCGTGAAGCTTCAAGCATGTCTCAAGAAAGTGTATGA 430
QY 439 GCAAAAGTCCGGGAGATCATGTACCGCAAGTCTGTGCATCATGAGCGGCTGTCTATCC 498
Db 431 GCAAAAGTCCGGGAGATCATGTACCGCAAGTCTGTGCATCATGAGCGGCTGTCTATCC 490
QY 499 CTCGTGCGGGGTACCACTCTTCTGCTCCCGAGGAAACGAACTCATGTTGATGACG 558
Db 491 CTCGTGCGGGGTACCACTCTTCTGCTCCCGAGGAAACGAACTCATGTTGATGACG 550
QY 559 CTCGACACACCTCTTCTTGAACGGGCGCAAGGCCAAGAAAGGGAAGTTCTGCTCGGC 618
Db 551 CTCGACACACCTCTTCTTGAACGGGCGCAAGGCCAAGAAAGGGAAGTTCTGCTCGGC 610
QY 619 CCTCAGGCGAGGCTCCGACACCATCTGTCTCTCAAAATTAGCCCTTCTCGGCACA 678
Db 611 CCTCAGGCGAGGCTCCGACACCATCTGTCTCTCAAAATTAGCCCTTCTCGGCACA 670
QY 679 CTGCTGAAGCTGAAGAGATGCGACCCCTCGCATTTGTC-TTCAGCCCTCGGCCCC 737
Db 671 CTGCTGAAGCTGAAGAGATGCGACCCCTCGCATTTGTC-TTCAGCCCTCGGCCCC 730
QY 738 AA--CCCCCACCCTCCCTAGTAGTGTCTCTGAGGTCTCTTTATCTGGTAGGAG 795
Db 731 AAACCCCCACACCTCTCTAGTAGTGTCTCTGAGGTCTCTTTTATCTGGTAGG 790
QY 796 CGGAGTCTCGTGTCTCTTTGTTTC 820
Db 791 AAGGAGCCGGGAAACCCCGGGTTTC 815

RESULT 5
LOCUS   BG752229          821 bp    mRNA    linear    EST 15-MAY-2001
DEFINITION 602731372F1 NIH_MGC_43 Homo sapiens cDNA clone IMAGE:4875113 5',
          mRNA sequence.
ACCESSION BG752229
VERSION   BG752229.1 GI:14062882
KEYWORDS  EST.
SOURCE    human.
ORGANISM  Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 821)
AUTHORS   NIH-MGC http://mgc.ncl.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strausberg, Ph.D.
           Email: cga@bs-remail.nih.gov
           Tissue Procurement: ATCC
           cDNA Library Preparation: Ling Hong/Rubin Laboratory
           cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
           DNA Sequencing by: Incyte Genomics, Inc.
           Clone distribution: MGC clone distribution information can be
           found through the I.M.A.G.E. Consortium/LLNL at:
           http://image.llnl.gov
           Plate: L1CM1755 row: o column: 18
           High quality sequence stop: 770.

FEATURES
Source    1..821
           /organism="Homo sapiens"
           /db_xref="taxon:9606"
           /clone_1ib="NIH_MGC_43"
           /tissue_type="normal pigmented retinal epithelium"
           /lab_host="DH10B (phage-resistant)"

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/clone.lib="RIKEN full-length enriched mouse cDNA library"  
/dev\_stage="11 days embryo"  
1159.1470  
/note="BRAIN CDNA, CLONE MNCB-0671  
data source:SPFR, source key:Q9J56, evidence:ISS  
putative"  
/codon\_start=-1  
/protein\_id="BAB28220.1"  
/db\_xref="GI:12849130"  
/db\_xref="MGD:1919835"  
/translation="MLOSQAAEHLPEHLPEHLRGHVEEVEDHRAVEEEREQED  
HCEPVSSTGVMGFCCSHDPSDLIGHPTHEGRHNNOSQARTGKRRRGEKHENKN  
K"

BASE COUNT 366 a 370 c 405 g 349 t  
ORIGIN

Query Match 35.8%; Score 678.8; DB 11; Length 1490;  
Best Local Similarity 71.1%; Pred. No. 1.6e-112;  
Matches 1023; Conservative 2; Mismatches 365; Indels 44; Gaps 8;

311 GGCCTTGGCGTCAAAATCCAGTGTACAGTGAAGAATTCACAGTGAACAGACCTGC 370  
64 GGGCTGGCGGTCAAAATCCAGTGTACAGTGAAGAATTCACAGTGAACAGACCTGC 123  
371 TCCCTCCCGGATTCATTTGATTTGACAGGTGAACGTTCAAGACATGTGTAGAAAGA 430  
124 TCATCCCTGATTCATTCATTTGATTTGACAGGTGAACGTTCAAGACATGTGTAGAAAGA 183  
431 GTGATGAGCAAAAGTGGCGGATCATGTATGACGCAAGTCTCTGATCATCATCGGCGCTGT 490  
184 GTGATGAGCAAAAGTGGCGGATCATGTATGACGCAAGTCTCTGATCATCATCGGCGCTGT 243  
491 CTGATGCGCTCTGCGGCTGACATCTCTGCTGCTCCCGAGGAAACGTAACTCACTTTGC 550  
244 CTGATGCGCTCTGCGGCTGACATCTCTGCTGCTCCCGAGGAAACGTAACTCACTTTGC 303  
551 ATGAGTGTGCAACACCCCTCTTTGTAAGGGGCAAGGCCCAAGAAAGGGAAGTCT 610  
304 ATGAGTGTGCAACACCCCTCTTTGTAAGGGGCAAGGCCCAAGAAAGGGAAGTCT 363  
611 GCGTGGCGCTCAAGGCGGCTCCGACCAACATCTCTGCTCAAAATTAAGCCCTTTC 670  
364 GCGTGGCGCTCAAGGCGGCTCCGACCAACATCTCTGCTCAAAATTAAGCCCTTTC 423  
671 TGGGCAACATCTGTAAGGATGCAAGGATGCAAGGATGCAAGGATGCAAGGATGCAAGGAT 730  
424 TTGGCAACATCTGTAAGGATGCAAGGATGCAAGGATGCAAGGATGCAAGGATGCAAGGAT 483  
731 CGGCGGCAACCCCGACCTCTGAGTGAATTTCTGAGGATGCTTTATTTGAGGATA 790  
484 TCGTCTCTACCTTTCC-----GAGTCTCTTGGGTGTCCTTTTATTTGAGGATA 533  
791 GGGAGGGGAGTCCGTGTTCTTTGTTCTGCAAAATA-----TGAAAGAGCTC 843  
534 GACAAAGGAGTCTTTTGTTCCTCTTCAAGTAAGCAAGATGCGGTGCACAAATATC 593  
844 GGTAAAGATTTCTGAATTAATTCAGCTGTAATTTTCA-----GTAATCTACTGAG 898  
594 TTTTGTAGCTCTGAACCAATTAATTTCTGTAATTTCTGTAATTTGAAGAAAAAGCAT 653  
899 GAAGAGGTGAGTGAAGTTCACCCCATGCTGTGTAACCGGAGTCAAGGCGAGGCTG 958  
654 GGAGGAGAAAGTCCAGACCTCCCATCTCCATCTGTTAACCACCGGAGGCTAGCTG 713  
959 GGAGAGTCTGCTTGAAGTCACTAGGTTGGGATGCTGCTTTTGAAGCTCTCAAGT 1018  
714 GAAGAAACAG-CCTTGAAGTCACTAGGATGAGTATGCTGCTTTCCCAAGCTTGAAGCT 772  
1019 TCCATTCATTCCTGATGAGGAGGATG-----TTGAGACGTGACAGAGTGAAGT 1067  
773 TCCATTCCTGCTCCAGTGAAGTCACTATTCAGAGACTGCTGCTGCGTGAAGTGAAC 832  
1068 GACGTTTCTTGAAGGCTGAGGCGCAGTTCCCACTCAAGGCTCCCTGCTTGAACATTTCA 1127

833 TTTGCTTTGGGGAGGAGGAGACGACGATTTGGCTCAAGGCTTCTGAACCTTCCATTCAT 892  
1128 ACTTCATGCTCTCGAAGAACCTTCTGTCAGACAGAAATTTGCTGTTTGGCGCTGAGTTG 1187  
893 ACTTCCTGCTCTGTAAGTATTTTCTGAGGTGAGCCAGCGGTTTGCTCTGAGCA 952  
1188 GGTCTGTGATCTGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 1244  
953 GTCTGTGATCTGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGAC 1012  
1245 TGAAGTCTTGAAGAAATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTT 1298  
1013 TGAAGTCTTGAAGAAATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTT 1072  
1299 GACGCGAAGACAGGCGGCTGCAAAAGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1358  
1073 GCTAGGAAGATGAGGGGCTGCGGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1132  
1359 ACAGCGAGGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1418  
1133 GCAGCGGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1192  
1419 ACAGACCCGCGAAGCTCTGCGAGACACCTGTATACAGAGCGGCTGATACCGAG 1478  
1193 CAGAACACCTTCCGAACTGCTGAGAGACAGCTTGTATAGAGAGAGGTTGACCCAGAG 1252  
1479 CTGAGGTGAAGAAACCTCTCCGAGAAAGGAGAGATCATGTACGCCCGAGATGAGAC 1538  
1253 CTGAGGTGAAGAAAGTATCAGAAAGGAGAGGAGATCATGTATGCTTCAAGTACGTT 1312  
1539 CTGCTCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1598  
1313 CTGCTCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1372  
1599 CAGCATACGCGCAATGTACACACATGACGCTGCGAGACAGACAGAGAGAGAGAC 1658  
1373 CAACACACGCGCAACGTCACACATGATGCTT-GCAGGCAAGAGAGAGAGAGAGAGAGAG 1431  
1659 AGAGAAAGAAACACAGCATGAGAACAGATTAAGTAAATTAATTAATTAATTAATTAATTAAT 1716  
1432 AGAGGGGAGAGAAACAGCATGAGAACAAATTAATTAATTAATTAATTAATTAATTAAT 1489

RESULT 8  
AI936826/c 678 bp mRNA linear EST 08-MAR-2000  
LOCUS  
DEFINITION  
wp69h10.x1 NCI\_CGAP\_Brn25 Homo sapiens cDNA clone IMAGE:2467075 3,  
similar to SW:GP39\_HUMAN 043194 putative G PROTEIN-COUPLED RECEPTOR  
GPR39.; mRNA sequence.  
ACCESSION  
AI936826  
VERSION  
AI936826.1 GI:5675696  
KEYWORDS  
EST.  
SOURCE  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
1 (bases 1 to 678)  
NCI/NINDS-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
TITLE  
National Cancer Institute / National Institute of Neurological  
Disorders and Stroke, Brain Tumor Genome Anatomy Project  
(CGAP/BRGAP), Tumor Gene Index  
UNPUBLISHED (1998)  
CONTACT: Robert Strausberg, Ph.D.  
Email: c9apbs-rt@mail.nih.gov  
Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D.,  
Ph.D.  
COMMENT  
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima  
Bonaldi, Ph.D.  
cDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/BLN at:





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QY 1510 GGAGGATCATGTACGCCCGGAAAGTAGGACCTGCTCAGTCTGCTGGTTGGCCGAG 1569
    |||||||
Db 304 GGAGGATCATGTACGCCCGGAAAGTAGGACCTGCTCAGTCTGCTGGTTGGCCGAG 363
QY 1570 CCATGATCTCCGAAATGCTGGTGGCATCCAGCATACGCCCAATGTCACACATAGCC 1629
    |||||||
Db 364 CCATGATCTCCGAAATGCTGGTGGCATCCAGCATACGCCCAATGTCACACATAGCC 423
QY 1630 CTGGGACAGACGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1689
    |||||||
Db 424 CTGGGACAGACGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 483
QY 1690 GTAAATGATTAACCATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1749
    |||||||
Db 484 GTAAATGATTAACCATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 543
QY 1750 TGGTACCAATTTTTCAGTGTGAGCTTACAGCTCTTTTGGCACAAGAGAGATTT 1809
    |||||||
Db 544 TGGTACCAATTTTTCAGTGTGAGCTTACAGCTCTTTTGGCACAAGAGAGATTT 603
QY 1810 TAACACTGTTTCAAAACCCGGGGAGATTGGCTGTGTTAAAGAGACATTAATGCTTA 1869
    |||||||
Db 604 TAACACTGTTTCAAAACCCGGGGAGATTGGCTGTGTTAAAGAGACATTAATGCTTA 663
QY 1870 GACAGTGTAAAAAAGAAAAA 1891
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Db 664 GACAGTGTAAAAAAGAAAAA 1891
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RESULT 10 747 bp mRNA linear EST 16-OCT-2001
BI917149 603181571F1 NIH_MGC_121 Homo sapiens cDNA clone IMAGE:5245648 5',
DEFINITION mRNA sequence.
ACCESSION BI917149
VERSION BI917149.1 GI:16181111
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE NIH-MGC http://mgc.nci.nih.gov/
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LLM11619 row: n column: 17
High quality sequence stop: 737.
Location/Qualifiers
1..747
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5245648"
/clone_1ib="NIH_MGC_121"
/lab_host="DH10B"
/note="Organ: Brain; Vector: pCMV-SPORT6; Site_1: Not;
Site_2: Ecorey (destroyed); RNA source anonymous pool of 3
fetal brains, female age 20 weeks, female age 24 weeks,
and male age 26 weeks. Library is oligo-dT primed and
directionally cloned (Ecorey site is destroyed upon
cloning). Average insert size 1.7 kb, insert size range
0.7-3.5 kb. Library is normalized and enriched for
full-length clones and was constructed by C. Gruber
(invltrogen). Research Genetics tracking code 017. Note:

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BASE COUNT 140 a 245 c 216 g 146 t
ORIGIN

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Query Match 35.0%; Score 664.2; DB 13; Length 747;
Best Local Similarity 98.6%; Pred. No. 8.3e-110;
Matches 691; Conservative 0; Mismatches 8; Indels 2; Gaps 2;

```

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QY 1 GCCAATCTCCGAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60
    |||||||
Db 47 GCCAATCTCCGAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 105
QY 61 CAGCCGGAGCCCGCAGGCGCGGCGATGCGAGCTCCGAGGCGGCGCGGCGGCGGCGG 120
    |||||||
Db 106 CAGCCGGAGCCCGCAGGCGCGGCGATGCGAGCTCCGAGGCGGCGGCGGCGGCGG 165
QY 121 AGCTACGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
    |||||||
Db 166 AGCTACGACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 225
QY 181 CGCTGCAAGCCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 240
    |||||||
Db 226 CGCTGCAAGCCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 285
QY 241 GCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 300
    |||||||
Db 286 GCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 345
QY 301 CTTCCTTCCAGGCTTTGCGCTGCAATTCAGTGTACAGAGTGTGAAGTAATTCAGCTGA 360
    |||||||
Db 346 CTTCCTTCCAGGCTTTGCGCTGCAATTCAGTGTACAGAGTGTGAAGTAATTCAGCTGA 405
QY 361 CAACGACTGCTCTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 420
    |||||||
Db 406 CAACGACTGCTCTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 465
QY 421 TCAGAAAGAGATGATGAGCAAGTGCAGGATCATGACGCAAGTGCAGGATCATG 480
    |||||||
Db 466 TCAGAAAGAGATGATGAGCAAGTGCAGGATCATGACGCAAGTGCAGGATCATG 525
QY 481 AGCGGCTGTCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
    |||||||
Db 526 AGCGGCTGTCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 585
QY 541 CTCAGTTTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
    |||||||
Db 586 CTCAGTTTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 645
QY 601 GGGAGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
    |||||||
Db 646 GGGAGTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 705
QY 661 AGCCCTCTTCTGCGGAC-ATGCTGAAGCTGAAGGAGATGC 700
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Db 706 AGCCCTCTTCTGCGGACACTGTAAGCTGAGAGAGATGC 746
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RESULT 11 799 bp mRNA linear EST 26-OCT-2000
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DEFINITION mRNA sequence.
ACCESSION BE271770
VERSION BE271770.1 GI:9145793
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE NIH-MGC http://mgc.nci.nih.gov/
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)

```

**COMMENT**

Contact: Robert Strausberg, Ph.D.  
Email: c9gabbs-r@mail.nih.gov  
Tissue Procurement: DCTD/DMP  
cDNA Library Preparation: Ling Hong/Rubin Laboratory  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNLN at: [image.llnl.gov](http://image.llnl.gov)  
Plate: LNC9111 row: C column: 19  
High quality sequence stop: 721.  
Location/Qualifiers

FEATURES

SOURCE

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SOURCE
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/tissue_type="adenocarcinoma cell line"
/lab_host="Dh10b (phage-resistant)"
/notes="Organ: ovary; Vector: pORF7; Site_1: XhoI; Site_2
ECORI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(C). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
BASE COUNT
171 a 225 c 199 g 204 t

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BASE COUNT	171 a	225 c	199 g	204 t
ORIGIN				
Query Match		34.7%	Score 658.8; DB 10;	Length 799;
Best Local Similarity		96.6%	Pred. No. 7.6e-109;	
Matches 767; Conservative		2; Mismatches 14;	Indels 11;	Gaps 9

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QY	554	AGCTGCTGCAACACCCCTCTTTGTAAAGGGCCAAAGGCCCAAGAAAGGGGAAGTTCTGCC	613
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QY	614	TCGGCCCTCAGGCCAGGGCTCCGACCAACATCTGTTCTCAAATTTAGCCCTCTTCTCG	673
Db	120	TCGGCCCTCAGGGCCA-GGCTTCGGACCAACATCTGTTCTCAAATTTAGCCCTCTTCTCG	178
QY	674	GCACACTGCTAAGTGAAGAGAGATGCGACC--CCCTCGCAATGTGTTCTCCAGCCCTC	731
Db	179	GCACACTGCTAAGTGAAGAGAGATGCGACCCGCCCTCTGCAATGTTCTTCCAGCCCTC	238
QY	732	GCCCCCAACCCCCACACCTCCCTGAGTAGTTCTTCTGGGCTGACCTTTATTTCTGGGTAG	791
Db	239	GCCCCCAACCCCCACACCTCCCTGAGTAGTTCTTCTGGGCTGACCTTTATTTCTGGGTAG	298
QY	792	GGAGCGGAGTCCGTGTTCTTTTGTTCCTGTGCAAAATATGAAAGACTCGGTAAAGC	851
Db	299	GGAGCGGAGTCCGTGTTCTTTTGTTCCTGTGCAAAATATGAAAGACTCGGTAAAGC	358
QY	852	ATTCTGAATTAATTCAGTGTACAGAAATTTTCAATATGACTTGAAGGAAGAGAGGGAG	911
Db	359	ATTCTGAATTAATTCAGTGTACAGAAATTTTCAATATGACTTGAAGGAAGAGAGGGAG	418
QY	912	TGAAGATTCACCCCATCTGTGTAAACCGGAGTCAAGGGCAGGGCTGGCAGACTCAGTCC	971
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QY	972	TTAGAAATCTAGAGTGGGCACTGCCCTTTTGTAAAGCTCCAGTGTCCATTTCATCCC	103
Db	479	TTAGAAATCTAGAGTGGGCACTGCCCTTTTGTAAAGCTCCAGTGTCCATTTCATCCC	537
QY	1032	TCATGGGGGCAATGTTTGAAGTGCAGAGTGAAGTAGTGCATTTCTTAGGGCTGGAGGGC	109
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Qy	1092	CATTCCACACGAGGCTGCTT-CGGTGCATTCAAATTTATGCTCTGTAACAACTT	1150
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Qy	1151	CTTCGACGACAGAAATTTGGCTGGTTTCGGCGCTGAGTTGGGCTCTAG--TGACTGCAGACTCA	1209
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Qy	1210	ATGA-CTGCGACTTAGACTGGGGCTCGGGCTCGCTCTGAAAAGTCTTAAGAAATTTTC	1268
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QY	1269	TCAGTTCCTCTGC	1282
Db	775	TCAGTCCTCCTTGC	788
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ORGANISM	Homosapiens		

REFERENCE	1 (bases 1 to 676)
AUTHORS	NIH-MGC <a href="http://mgc.ncbi.nlm.nih.gov/">http://mgc.ncbi.nlm.nih.gov/</a> .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1995)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: <a href="mailto:cgaabs-r@mail.nih.gov">cgaabs-r@mail.nih.gov</a> Tissue Procurement: ATCC/DCMT/DTF cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <a href="http://image.lnl.gov">image.lnl.gov</a> Plate: LCM285 row: 9 column: 09 High quality sequence stop: 653.
FEATURES	location/Qualifiers
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/lab_host="DH10B (phage-resistant)"
/notes="Organ: skin; Vector: pORF7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(C). Size-selected >500bp for average
insert size 1.8kb.. Library constructed by Ling Hong in
the Laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
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QY	1109	TCCGCGCGTGCATTCATCAAACTTATGCTCTCTAAAAACCAATTCCTGCGACGAAATGCG	1168
QY <td>1</td> <td>TCCTTCGCTGCATTCACAACTTCATCTCTCTAAAAACCAATTCCTGCGACGAAATGCG</td> <td>60</td>	1	TCCTTCGCTGCATTCACAACTTCATCTCTCTAAAAACCAATTCCTGCGACGAAATGCG	60
Db <td></td> <td></td> <td></td>			
QY <td>1169</td> <td>TGGATTGCGCGCTCGAGTTGGGCTCTAGTACTGAGACACTAATGATCGGACTTTAGACTG</td> <td>1228</td>	1169	TGGATTGCGCGCTCGAGTTGGGCTCTAGTACTGAGACACTAATGATCGGACTTTAGACTG	1228
Db <td>61</td> <td>TGGATTGCGCGCTCGAGTTGGGCTCTAGTACTGAGACACTAATGATCGGACTTTAGACTG</td> <td>120</td>	61	TGGATTGCGCGCTCGAGTTGGGCTCTAGTACTGAGACACTAATGATCGGACTTTAGACTG	120

QY	1229	GGGCTGGGCGCTGCTCTGAAANAATGCTTAAAGAAAATCTTCTCACTTCTCTCTTCACAGAGA	1288
Db	121	GGCTTCTGGCGCTCGCTCTGAAAAGTGGTTAAAGAAAATCTTCTCACTTCTCTCTTCACAGAGA	180
QY	1289	CTGGCCCGCCGGAGGCCAAGAGCAACACGGCGCTCACAAAAGCGGGCGCTGCGGGTGGGA	1348
Db	181	CTGGCGCCGGAGGCCAAGAGCAACGGCGCTCACAAAAGCGGGCGCTGCGGGTGGGA	240
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QY	1409	CAGCAGCTTCACAGAACACCGCGGAAACGTGCGAGAGACACCGTTACAGAGACGGGTT	1468
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QY	1469	GATGACCGAGCTGAGGTAGAAAAACGTCGCCGAAGGGGAGGAGATCATGACGCCG	1528
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QY	1529	GAAATAGAGACCTGCTCCATCTCGTGGCTTGGCGTGGCCGACGCCATGATCCCGAATCG	1588
Db	421	GAAATAGAGACCTGCTCCATCTCGTGGCTTGGCGTGGCCGACGCCATGATCCCGAATCG	480
QY	1589	GTTCGGCATCCAGCATACGCCCAATGTCAACAATCACGCCCGGGGACACACGACGACG	1648
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QY	1709	AAATATTTAGCCCCCTGTTCTGTCTGTCTACTGTGCGCAAGAAATGTCATTTTTCAGTG	1768
Db	601	AAATATTTAGCCCCCTGTTCTGTCTGTCTACTGTGCGCAAGAAATGTCATTTTTCAGTG	658
QY	1769	TTTGACTTGACACGCTTCT 1786	
Db	659	TTTGACTTGACACGCTTCT 676	
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BI919074			
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DEFINITION	60318088H1p1 NIH_MGC_121 Homo sapiens cdna clone IMAGE:5244956 5'		EST 16-OCT-2001
ACCESSION	BI919074		
VERSION	BI919074.1		
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryote: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;		
AUTHORS	Mammalia: Eutheria: Primates: Catarrhini: Hominiidae: Homo.		
TITLE	NIH-MGC http://mgc.ncl.nih.gov/.		
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)		
COMMENT	Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgabbs-remail.nih.gov Tissue Procurement: Life Technologies, Inc. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LMD) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LMD at: http://image.lnl.gov Plate: LMD1618 row: a column: 21 High quality sequence start: 4 High quality sequence stop: 702. Location/Qualifiers 1..704 /organism="Homo sapiens"		
FEATURES			
SOURCE			

[illegible]



Matches 692; Conservative 0; Mismatches 5; Indels 4; Gaps 4;

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QY 62 AGCCGGGAGAGCGCGGCGATGACAGGCTCCGAGCGGACCTGCGGCTCTCTAA 121
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Db 60 AGCCGGGAGAGCGCGGCGATGACAGGCTCCGAGCGGACCTGCGGCTCTCTAA 119
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QY 122 GCTAGACCGCTGCTCGCGGCGAGAGCGGCGGCGGCGGCGGCGGCGGCGG 181
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Db 120 GCTAGACCGCTGCTCGCGGCGAGAGCGGCGGCGGCGGCGGCGGCGGCGG 179
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QY 182 GCTGACAGCGGCGGAGAGCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 241
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Db 180 GCTGACAGCGGCGGAGAGCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 239
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QY 242 CCGCGGAGCTCGGAGAGATGAGGCTGCTGAGCATGCGGCGGCGGCGGCGG 301
   |||||
Db 240 CCGCGGAGCTCGGAGAGATGAGGCTGCTGAGCATGCGGCGGCGGCGGCGG 299
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QY 302 TTGCTTCAGGCTTTGGCGTCAATCCAGTGTACAGTGTGAAGATTCAGCTGAC 361
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QY 362 AACGACTGCTCTCCCGGAGTTCATTTGATTTGATTTGATTTGATTTGATTT 421
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Db 360 AACGACTGCTCTCCCGGAGTTCATTTGATTTGATTTGATTTGATTTGATTT 419
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QY 422 CAGAAA-GAAGTGTGAGCAAGTCCGCGGATCATGTACCGCAAGTCTGTGATCATC 480
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